

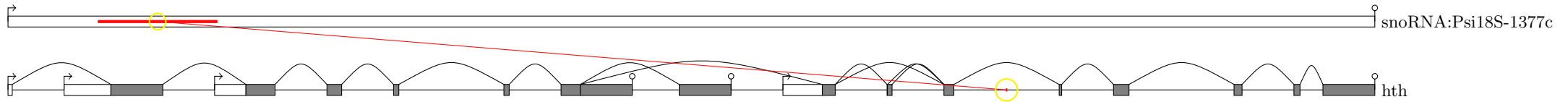
D.Mel	ttctacca-	CGGTtCTTGtgTTAT	tcgctaga-tcttttcatggc-...90...attgctacagtt	gaatatcc
D.Sim	ttctagca-	CGGTtCTTGtgTTAT	tcgctaga-ccatttcatggc-...90...attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CGGTtCTTGtgTTAT	tcgctaga-ccttttcatggc-...90...attgccacagtt	gaaaatcc
D.Ere	ttctgcta-	CGGTtCTTGtgTTAT	tcgctgga-tgtttccatggt-...91...cttgctacagct	gaaaaact
D.Ana	atacacca-	CGGTtCTTGtgTTAT	tcactgga-tgttattgtcaa-...94...attgcgacattt	gcactttt
D.Gri	ttttaata-	CGGTtCTTGtgTTAT	ttgctgaa-tttagt-ttatca...123...aaagtttcagta	gtacagat
D.Moj	tta-CATTa	CGGTtCTTGtgTTAT	tcgctgaa-tttg-tactcca...96...ctggccacattc	tatttaat
D.Per	-tatatccg	CGGTtCTTGtgTTAT	tcactggactcaccttatag-...98...tttgctacagag	taatccca
D.Pse	-tatatccg	CGGTtCTTGtgTTAT	tcactggactcaccttatag-...98...tttgctacagag	taatccca
D.Vir	aaacgcta-	CGGTtCTTGtgTTAT	tcgctgaa-tctgttaatctc-...96...ctcgccacattt	attcttaa
D.Yak	ttttacta-	CGGTtCTTGtgTTAT	tcgctgga-tgttttcatggt-...91...cttgctacagtt	aaaaaact
		*****	** * * *	** **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	actcactg	gtaagtacgaag...1128...gcagcagcatccagctga-atGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...885...cttttcttacag	atggtgca
D.Sim	actcactg	gtaagtacgaag...1121...gcagcagcatccagctga-atGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...882...cttttcttacag	atggtgca
D.Sec	actcactg	gtaagtacgaag...1120...gcagcagcatccagctga-atGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...882...cttttcttacag	atggtgca
D.Ere	actcactg	gtaagtacgcag...1138...gcagcagcatccagcaga-atGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...899...ctcttcttcag	atggtgca
D.Ana	actcactg	gtaagtacctca...883...atccgaacatccaacaga-atGTAAtCAAGACGG	aaatgccgctgcaaaagga-----...829...ctctctttccag	atggtgca
D.Gri	attcactg	gtaagtaaaaag...1383...-aggcagttttggagcgcGTAAtCAAGACGG	aaatgctgctgcaaaaagt-----...1184...ctctctttgag	atggtgca
D.Moj	attcactg	gtaagtaaaaca...891...-agagatttttggagaacatGTAAtCAAGACGG	AATGctgctgcaaaaagtgcaaa...1115...ctctctttgag	atggtgca
D.Per	attcactg	gtaagtaaaaaca...1283...gagatcat-ttcggctggcatGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...1124...ttcctttgag	atggtgca
D.Pse	attcactg	gtaagtaaaaac...1250...gagatcat-ttcggctggcatGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...1146...ttcctttgag	atggtgca
D.Vir	attcactg	gtaagtaaaaca...1018...caggcaat-tttgaaacctGTAAtCAAGACGG	aaatgctgctgcaaaaat-----...1051...ctctctttgag	atggtgca
D.Yak	actcactg	gtaagtacaatg...1136...gcagcagcatccagctga-atGTAAtCAAGACGG	aaatgccgctgcaaaaagt-----...908...gttttcttcag	atggtgca
	* *****	*****	* *****	* ** **

id=103964 gene=FBgn0001235 name=hth segment=chr3R.6417182.6419272.-1 type=IN VIEW

Figure 1: CS=11



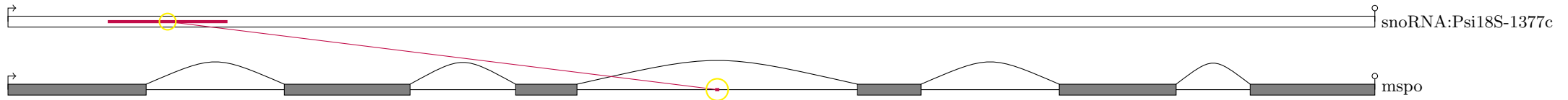
D.Mel	ttctac-ca	cCGTTcTTGTGTTA	ttcgctagatctttcatgg...91...attgctacagtt	gaatatcc
D.Sim	tt-CTAGCA	cCGTTcTTGTGTTA	ttcgctagaccatttcatgg...91...attgccacagtt	gaaaatcc
D.Sec	tt-CTAGCA	cCGTTcTTGTGTTA	ttcgctagacctttcatgg...91...attgccacagtt	gaaaatcc
D.Ere	ttctgc-ta	cCGTTcTTGTGTTA	ttcgctggatgtttccatgg...92...cttgctacagct	gaaaaact
D.Ana	atacac-ca	cCGTTcTTGTGTTA	ttcactggatgttattgtca...95...attgcgacattt	gcactttt
D.Gri	tt-TTAATA	cCGTTcTTGTGTTA	tttgctgaatttagttatc...124...aaagtttcagta	gtcacagat
D.Moj	ttacat-ta	cCGTTcTTGTGTTA	ttcgctgaattgtactccc...97...ctggccacattc	tatttaat
D.Per	-tatatccg	cCGTTcTTGTGTTA	ttcactggactcaccttata...99...tttgctacagag	taatccca
D.Pse	-tatatccg	cCGTTcTTGTGTTA	ttcactggactcaccttata...99...tttgctacagag	taatccca
D.Vir	aaagc-ta	cCGTTcTTGTGTTA	ttcgctgaatctgttaatc...97...ctgcacacattt	attcttaa
D.Yak	ttttac-ta	cCGTTcTTGTGTTA	ttcgctggatgtttcatgg...92...cttgctacagtt	aaaaaact
		*****	*****	*****

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	tagtcctg	gtaagtaatcag...2680...actttggctgcgaaatcaat	TAAcAaACAA	taAACG	ttgttggccaggccagaca-----	...1688...ctctacttgcag	acaatttc
D.Sim	tagtcctg	gtaagtaatctg...2688...actttggctgcgaaatcaat	TAAcAaACAA	taAACG	ttTGTGGccaggccagacacgtatttt...	...1665...ctctacttgcag	acaacttc
D.Sec	tagtcctg	gtaagtaatctg...2636...actttggctgcgaaatcaat	TAAcAaACAA	taAACG	ttTGTGGccaggccagacacgtatttt...	...1662...ctctacttgcag	acaacttc
D.Ere	tagtcctg	gtaagtaatcgg...2761...tctttggctgcgaaatcaat	TAAcAaACAA	taAACG	ttgttggccaggccagaca-----	...1639...ctctacttgcag	acaacttc
D.Ana	tagtcctg	gtaagtaactccc...2276...aacttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttgcctggccaggccagaca-----	...1584...ctctctttccag	acaacttc
D.Gri	tagtcctg	gtaagtaaatcc...2671...caacttccagcaaatcaat	TAAcAaACAA	taAACG	ttTGTGGccaagccagacacgtatttt...	...2230...atctctttgcag	acaatttc
D.Moj	cagtcctg	gtaagtacttga...2841...caacttccagcaaatcaat	TAAcAaACAA	taAACG	ttgttggccaagccagaca-----	...2068...ttttcattgcag	acaatttc
D.Per	tagtcctg	gtaagtatttcc...2723...aactttgctgcgaaatcaat	TAAcAaACAA	taAACG	ttgttggccaggccagaca-----	...1622...ttctactttcag	acaacttt
D.Pse	tagtcctg	gtaagtatttcc...2685...aactttgctgcgaaatcaat	TAAcAaACAA	taAACG	ttgttggccaggccagaca-----	...1598...ttctactttcag	acaacttt
D.Vir	tagtcctg	gtaagtatcaga...2628...caacttccagcaaatcaat	TAAcAaACAA	taAACG	ttgttggccaagccagaca-----	...1978...ttttctttgcag	acaatttc
D.Yak	tagtcctg	gtaagtattgcc...2805...actttggctgcgaaatcaat	TAAcAaACAA	taAACG	ttgttggccaggccagaca-----	...1646...ttctacttgcag	acaacttc
		*****	*****	*****	*****	*****	*****

id=103979 gene=FBgn0001235 name=hth segment=chr3R.6355185.6359632.-1 type=IN VIEW

Figure 2: CS=11



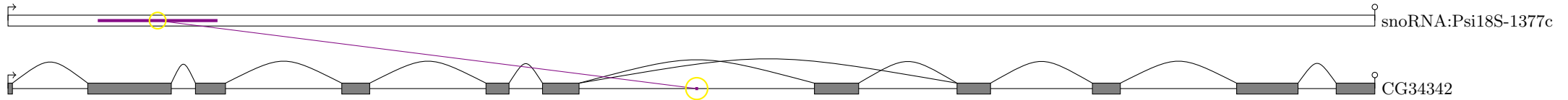
D. Mel	ttctacca	ccGTTCTTGTGTTATTCG	-----ctagatcttttcatggccta-----	...87...attgctacagtt	gaatatcc
D. Sim	ttctagca	ccGTTCTTGTGTTATTCG	-----ctagaccatttcatggccta-----	...87...attgccacagtt	gaaaatcc
D. Sec	ttctagca	ccGTTCTTGTGTTATTCG	-----ctagacccttttcatggccta-----	...87...attgccacagtt	gaaaatcc
D. Ere	ttctgcta	ccGTTCTTGTGTTATTCG	-----ctggatgtttccatggctcta-----	...88...cttgctacagct	gaaaaact
D. Ana	atacacca	ccGTTCTTGTGTTATTCAGTGGAA	-----tggtattgtcaaatccagtg-----	...86...attgcgacattt	gcactttt
D. Moj	ttacatta	ccGTTCTTGTGTTAT	-----tcgctgaatttg-tact-ccca-----	...96...ctggccacattc	tatttaat
D. Pse	tatatccg	ccGTTCTTGTGTTATTCAGTGGAC	ctaccttatagtcctgtgat-----	...89...tttgctacagag	taatccca
D. Vir	aaacgcta	ccGTTCTTGTGTTAT	-----tcgctgaatctgttaat-ctc-----	...96...ctcgccacattt	attcttaa
D. Wil	attcagta	tcGTTCTTGTGTTATTTGCCGAAA	-----tctttcat---ctagttcggtga...	176...actgactgtgtt	gaatcctt
D. Yak	ttttacta	ccGTTCTTGTGTTATTCG	-----ctggatgttttcatggctcta-----	...88...cttgctacagtt	aaaaaact
		*****	*	*	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	ttatcaag	gtgagtgacgc...2446...-----gagg-----gttttactcgccgctc-----	TGGGTAAcCACAA	GGAATttcacagtttttccagcccc...847...tcctatttgcag	ctgaagga
D. Sim	ttatcaag	gtgagtgacgc...2428...-----gagg-----gttttactcgccgctc-----	TGGGTAAcCACAA	GGAATttcacagtttttccagccgc...811...cctatttgcag	ctgaagga
D. Sec	ttatcaag	gtgagtgacgc...2434...-----gagg-----gttttactcgccgctc-----	TGGGTAAcCACAA	GGAATttcacagtttttccagccgc...825...cctatttgcag	ctgaagga
D. Ere	ttatcaag	gtgagtgacgg...2402...-----gagg-----gttttactcgccgctc-----	TGGGTAAcCACAA	GGAATttcacagtttttccagcccc...844...tgtatttgcag	ctgaagga
D. Ana	tcatcaag	gtaagaggattg...1979...aatgctgagg---gttttcgctt-----TCTGtc	TGGGTAAcCACAA	GGAATttcacagtttttctactcag...792...tgtccttccag	ctgaagga
D. Moj	ttatcaag	gtaagggagctg...4196...ttggatctgggtctgttttt-----	GTAAcCACAA	GGAATttcccagtggtcggattatg...713...cgctcttgcag	ctaaagga
D. Pse	tcatcaag	gtgagtgccgca...2907...-----ggtttcgttccattt---cgctGTCTct	TGGGTAAcCACAA	GGAATttcacagtttttctactctc...1272...ctctgtttgcag	ctgaagga
D. Vir	ttatcaag	gtaagtgagga...2655...ttggatctgggtctgttttt-----	GTAAcCACAA	GGAATttcacagtgtttgttgcgcc...673...tccatttgcag	ctaagga
D. Wil	ttatcaag	gtaagtgaatt...2639...cttcattgtg---tcgcctctac-----	TTTGGGTAAcCACAA	GGAATttcacagttttgttgcctgt...676...caatattgcag	ctaaagga
D. Yak	ttatcaag	gtgagtgacgg...2401...-----gagg-----gttttactcgccgctc-----	TGGGTAAcCACAA	GGAATttcacagtttttccagcccc...842...tcctatttgcag	ctgagga
		* ** ** *	*	*	** ** *

id=46295 gene=FBgn0020269 name=mspo segment=chr2R.10567678.10571053.-1 type=IN

Figure 3: CS=11.8



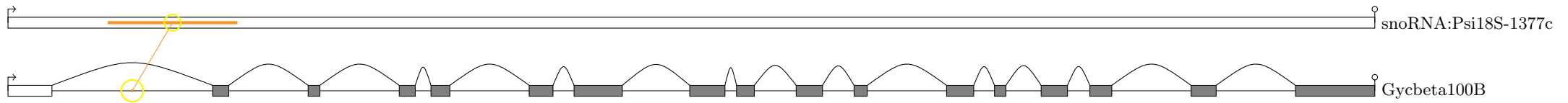
D.Mel	ttctacca	cCGTTcTTGTGTTA	Attcgcctagatcttttcatgg...	91...	attgctacagtt	gaatatcc
D.Sim	ttctagca	cCGTTcTTGTGTTA	Attcgcctagaccatttcatgg...	91...	attgccacagtt	gaaaatcc
D.Ere	ttctgcta	cCGTTcTTGTGTTA	Attcgcctggatgtttccatgg...	92...	cttgctacagct	gaaaaact
D.Ana	atacacca	cCGTTcTTGTGTTA	Attcactggatgttattgtca...	95...	attgctacattt	gcactttt
D.Gri	ttttaata	cCGTTcTTGTGTTA	Attgtggaatttagtttatac...	124...	aaagtctcagta	gtacagat
D.Moj	ttacatta	cCGTTcTTGTGTTA	Attcgcctgaattgtactccc...	97...	ctggccacattc	tatttaaat
D.Pse	tatatccg	cCGTTcTTGTGTTA	Attcactggactcaccttata...	99...	tttgctacagag	taatccca
D.Vir	aaacgcta	cCGTTcTTGTGTTA	Attcgcctgaatctgttaatct...	97...	ctgcccacattt	attcttaa
D.Yak	tttacta	cCGTTcTTGTGTTA	Attcgcctggatgttttcatgg...	92...	cttgctacagtt	aaaaaact
		*****	** *		* **	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gcccattag	gtgagtgttggga--...503...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcg----	tcctcatgc...524...	attatttcgag	taatgtca
D.Sim	gcccattag	gtga--gttggatg...473...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcg----	tcctcatgc...616...	attatttcgag	taatgtca
D.Ere	gcccattag	gtga--gtcggttg...494...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcg----	tcctcatgc...654...	attatttcgag	taatgtca
D.Ana	gcccattag	gtgactggcgac--...517...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcc----	tcctcatgc...513...	attatttcgag	taatgtca
D.Gri	acccatcg	gtaagtgggtga--...598...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcgtagcatcct----	...317...	attatttcgag	taatgtca
D.Moj	gcccattg	gtaagcagaaaa--...545...	aaacaaattttcatttattt TA --	ACAC-AAAATG	ccaaagcatcctttccgcat----	...344...	attatttcgag	taatgtca
D.Pse	gcccattag	gtgagtgggtga--...468...	aaacaaattttcatttattt TAAC	acACAAaAATG	ccaaagcatcc----	tccagcagc...521...	attatttcgag	taatgtca
D.Vir	gcccattg	gtaagtgtgggt--...538...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcctagatcct----	...277...	attatttcgag	taatgtca
D.Yak	gcccattag	gtga--gttggatg...539...	aaacaaattttcatttattt TA --	ACACAAaAATG	ccaaagcatcg----	tcctcatgc...668...	attatttcgag	taatgtca
	**** *	** *	*****	**** *****	*	*****	****	*****

id=86303 gene=FBgn0085371 name=CG34342 segment=chr3L.5499389.5500492.-1 type=IN

Figure 4: CS=11.7



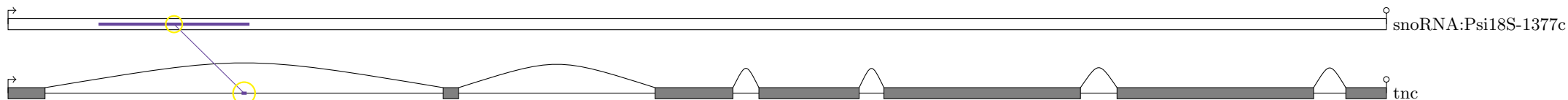
D.Mel	ttctacca	cc----	GTTCTTGTGTTATT	CGCTAGa	-tcttttcatggcctagcga...	83...	attgctacagtt	gaatatcc
D.Sim	ttctagca	cc----	GTTCTTGTGTTATT	CGCTAGa	-ccatttcatggcctagcga...	83...	attgccacagtt	gaaaatcc
D.Sec	ttctagca	cc----	GTTCTTGTGTTATT	CGCTAGa	-ccttttcatggcctagcga...	83...	attgccacagtt	gaaaatcc
D.Ere	ttctgcta	cc----	GTTCTTGTGTTATT	CGCTAGa	-tgtttccatggctcta----	88...	cttgctacagct	gaaaact
D.Ana	----ata	cACCAcc	GTTCTTGTGTTATT		cactgga-tggtt--attgtcaaa--	93...	attgcgacattt	gcactttt
D.Gri	ttttaata	cc----	GTTCTTGTGTTATT		tgctgaatttagttatcat-----	122...	aaagtttcagta	gtacagat
D.Moj	ttacatta	cc----	GTTCTTGTGTTATT		cgctgaatttgactcccat-----	95...	ctggccacattc	tatttaat
D.Per	tatatccg	cc----	GTTCTTGTGTTATT		cactggactcaccttatagt-----	97...	tttgctacagag	taatcca
D.Vir	aaacgcta	c----	CGTTCTTGTGTTATT		cgctgaatctgttaatctcg-----	95...	ctcgccacattt	attcttaa
D.Yak	ttttacta	cc----	GTTCTTGTGTTATT	CGCTAGa	-ctgga-tgttttcatggctcta----	88...	cttgctacagtt	aaaaaact
		*	*****	** *			* **	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	aaacaaat	gtaaattatcca...	1024...	cactctgtctctc--	tctcga--	CTGGcaCGAAAAATAGCACAA--	GGAC	-----	cttctgttg--	acagtgcctta-----	1621...	gtccaatttcag	ttgtgata--	
D.Sim	aaacaaat	gtaaattatcca...	1000...	cactctgtctctc--	tctcga--	CTGGcaCGAAAAATAGCACAA--	GGAC	-----	cttctgttg--	acagtgcctta-----	1637...	gtccaatttcag	ttgtgata--	
D.Sec	caacaaat	gtaaattatcct...	1001...	cactctgtctctc--	tctcga--	CTGGcaCGAAAAATAGCACAA--	GGAC	-----	cttctgttg--	acagtgcctta-----	1623...	gtccaatttcag	ttgtgata--	
D.Ere	aagcaaat	gtaaattatcca...	977...	-----	tgctctc--	tttcgactgcca--	CGAAAAATAGCACAA--	GGAC	-----	cttctgttg--	acagtgcctta-----	1501...	gtccaatttcag	ttgtgata--
D.Ana	aaacaaat	gtaaattactta...	995...	-----	ctctcgcttctcgatacga	-----	AATAGCACAA--	GGAC	CtTGGT	tgccacttctgttg--	acagtg-----	1945...	gtacgatttcag	-agtgatgt--
D.Gri	gctcagta	ataaaaacaagg...	221...	-----	tgatgttcgtaa-aaaattac	AATAACACAAgt	GGAC	-----	acaaaacgaattgaaatatt	...	2155...	at---attaaat	aggtaatgttc	
D.Moj	caaaaaca	aaaaataacaa...	242...	-----	acgaataagaaaatattac	AATAGCACAAgt	GGAC	-----	aaagcgttggaacaaaacg-a	-----	2010...	atcc-atttcaa	-ctcgataaa-	
D.Per	aaacaaat	gtaaattacagg...	969...	-----	ttgtcgacgggtgcccgaa	-----	AATAGCACAA--	GGAC	tccttcgattcccacttttg	-----	1851...	gtccaatttcag	ttgtgata--	
D.Vir	aaaaaaat	gtatcaaatag...	211...	-----	ggtattcacaacaaaattac	AATAGCACAAgt	GGACG	-----	aaatggtgaaacaaaacgta	-----	1944...	at---attgaat	acgttatgaat	
D.Yak	aaacaaat	gtaaattatcca...	978...	-----	tgctctc--	tctcgagtggca--	CGAAAAATAGCACAA--	GGAC	-----	cttctgttg--	acagtgcctta-----	1584...	gtccaatttcag	ttgtgata--
		*	*			**** *****	****					* ** *	**	

id=57632 gene=FBgn0013973 name=Gycbeta100B segment=chr3R.26960391.26963123.1 type=I5 VIEW

Figure 5: CS=13



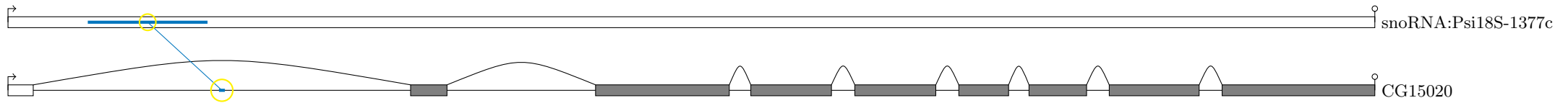
D.Mel	ttctac-ca	cCGTTcTTGTgTTATTCgCTAG	-atcttttca-t--ggcctagcga...83...attgctacagtt	gaatatcc
D.Sim	ttctag-ca	cCGTTcTTGTgtTATTCgCTAG	-accatttca-t--ggcctagcga...83...attgccacagtt	gaaaatcc
D.Sec	ttctag-ca	cCGTTcTTGTgTTATTCgCTAG	-accttttca-t--ggcctagcga...83...attgccacagtt	gaaaatcc
D.Ere	ttctgc-ta	cCGTTcTTGTgTTATTCgCTGG	-atgtttcca-t--ggtctagcga...84...cttgctacagct	gaaaaact
D.Ana	atacac-ca	cCGTTcTTGTgTTATTCaCTGG	-atgttattg-tcaaatccagt--...87...attgctacagtt	gcactttt
D.Moj	ttacat-ta	cCGTTcTTGTgTTATTC-----	gctgaattg-t--actccatt-...94...ctggccacattc	tatttaat
D.Per	-tatatccg	cCGTTcTTGTgTTATTCaCTGG	actcacctta-t--agtctgtg-...91...tttgctacagag	taatccca
D.Pse	-tatatccg	cCGTTcTTGTgTTATTCaCTGG	actcacctta-t--agtctgtg-...91...tttgctacagag	taatccca
D.Vir	aaacgc-ta	cCGTTcTTGTgTTATTC-----	gctgaatctgtt--aatctctg-...94...ctgcacacattt	attcttaa
D.Yak	ttttac-ta	cCGTTcTTGTgTTATTCgCTGG	-atgttttca-t--ggtctagtga...84...cttgctacagtt	aaaaaact
		*****	* * *	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gc---atagcg	gtaaaaacgcat...574...ggcgggtgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgacttggccgagagccg...1772...ctctcattgcag	ccccggtc
D.Sim	gc---atagcg	gtaaaaacgcat...533...ggcgggtgcgcgcgcgctttc	CTAGAAT-AACAAAATG	cacgacttggccgagagccg...2086...ctctcattgcag	ccccggtc
D.Sec	gc---atagcg	gtaaaaacgcat...527...ggcgggtgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgacttggccgagagccg...1784...ctctcattgcag	ccccggtc
D.Ere	ga---atagcg	gtaaaaacgcat...526...ggcgggtgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgacttggccgagagccg...1778...ctctcattgcag	ccccggtc
D.Ana	ga---atagcg	gtaaaaataaat...648...ggcgggtgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgactcgagcgagagagc...1631...ttctcattacag	ccccgttg
D.Moj	gcacaacagca	acacacaca---...666...---ggcgtgcgcgcgcgctttc	GAATAAACAAAATG	cacgactcctgcgacagcag...1811...ctttcattgcag	ctcccgta
D.Per	ga---atagcg	gtaaaaaaaaa...690...gcgaatgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgactcgagcgggagcaa...1987...tctcattccag	ctccactg
D.Pse	ga---atagcg	gtaaaaaaaaagg...676...gcgaatgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgactcgagcgggagcaa...1996...tctcattccag	ctccactg
D.Vir	gc---atagca	acacacaaaaat...683...---ggtgcgcgcgcgcgctttc	GAATAAACAAAATG	cacgactcctgcgacagcag...1758...tttctttgcag	ccccactg
D.Yak	ga---atagcg	gtaaaaacgcat...568...ggcgggtgcgcgcgcgctttc	CTAGAATAAACAAAATG	cacgacttggccgagagccg...1829...ttctcattgcag	ccccggtc
	* * **	* * *	* *****	** **	** *** * ** *

id=27885 gene=FBgn0039257 name=tnc segment=chr3R.20835177.20837603.1 type=IN VIEW

Figure 6: CS=10



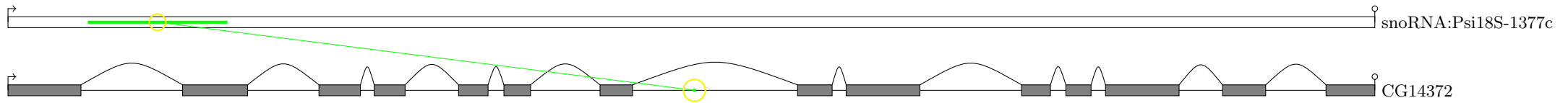
D. Mel	ttctacca-	CCGTTCTTGTT	attcgctagatcttttc	catg...92...attgctacagtt	gaatatcc
D. Sim	ttcta-GCA	CCGTTCTTGTT	attcgctagaccatttc	catg...92...attgccacagtt	gaaaatcc
D. Sec	ttcta-GCA	CCGTTCTTGTT	attcgctagaccttttc	catg...92...attgccacagtt	gaaaatcc
D. Ere	ttctgcta-	CCGTTCTTGTT	attcgctggatggttcc	catg...93...cttgctacagct	gaaaaact
D. Ana	atacacca-	CCGTTCTTGTT	attcactggatgtattg	tc...96...attgcgacattt	gcactttt
D. Gri	ttttaata-	CCGTTCTTGTT	atttgctgaatttgatt	t...125...aaagtttcagta	gtacagat
D. Moj	ttacatta-	CCGTTCTTGTT	attcgctgaattgtact	cc...98...ctggccacattc	tatttaat
D. Per	-tatatcCG	CCGTTCTTGTT	attcactggactcacct	t...100...tttgctacagag	taatccca
D. Pse	-tatatcCG	CCGTTCTTGTT	attcactggactcacct	t...100...tttgctacagag	taatccca
D. Wil	attca-GTA	TCGTTCTTGTT	atttgccgaaatctttc	catc...187...actgactgtgt	gaatcctt
D. Yak	ttttacta-	CCGTTCTTGTT	attcgctggatggttcc	catg...93...cttgctacagtt	aaaaaact
	*	*****	* *	*	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	cgaagag	gtaagttattca...606...gaagctgaagtaat-tataac---	AACA at TAAG ca AACGG cgtg	cg-tttttacagctaag-----...768...tcatcttt-gcag	ctgccagt
D. Sim	caagagag	gtaagtaaataa...588...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG c GTGC g-tttttacagctaagcgaaa...	780...tcatcttt-gcag	ctgccagt
D. Sec	caagagag	gtaagctattca...600...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG c GTGC g-tttttacagctaagcgaaa...	800...tcatcttt-gcag	ctgccagt
D. Ere	caaaagag	gtaagtttttct...643...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtg	cg-tttttacagctaac-----...843...tcatcttt-gcag	ctgccagt
D. Ana	ttaaata	gcaacagaataa...785...ggagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtg	cg-tttttacagctaag-----...1008...atgtcttt-gcag	ctgccagt
D. Gri	taacaaag	gtgagtgataa...1057...gcaaaagtaat-tataacaac	AACA at TAAG ca AACGG cgtg	cg-tttttacagctaa-----...1361...acctcttt-gcag	ttcgttca
D. Moj	cgtgaacg	gaagttgaagac...1760...ctccggcagtgataaaaac	AACA at TAAG ca AACGG cgtg	cg-tttttacagctatg-----...477...ttatcttt-gcag	cttcgact
D. Per	taagaaat	gtgagtatggtt...1109...gaagttggagtaat-tataac---	AACA at TAAG ca AACGGCG tg	cg-tttttacagctaagcg---...947...tccgattctgatt	ctgcagt-
D. Pse	taagaaat	gtgagtatggtt...1075...gaagttggagtaat-tataac---	AACA at TAAG ca AACGGCG tg	cg-tttttacagctaagcg---...726...ccgattctgatt	ctgcagtt
D. Wil	taacaaag	gtaagtcattg...600...gaagctaaagtaat-tataac---	AACA at TAAG ca AACGG c GTGC g-tttttacagctaagtgtaa...	720...actttgct-gtag	ccaacagt
D. Yak	aatacagag	gtaagtttgct...627...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtg	cg-tttttacagctaag-----...863...catctttgag	ctgccagt
	*		* * * *****	*****	*

id=73423 gene=FBgn0035543 name=CG15020 segment=chr3L.4422314.4423768.1 type=I5

Figure 7: CS=12.98



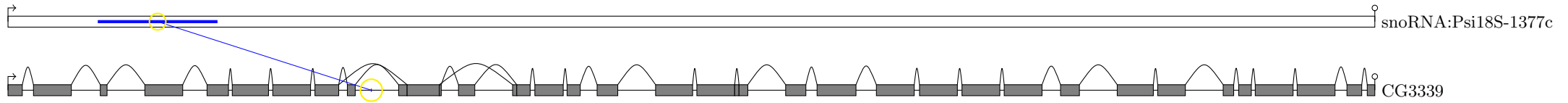
D.Mel	ttctacca-	CCGTTCTTGtGTTATT	cgctaga-tcttttcatggcc---...89...attgctacagtt	gaatatcc
D.Sim	ttctagca-	CCGTTCTTGtGTTATT	cgctaga-cattttcatggcc---...89...attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CCGTTCTTGtGTTATT	cgctaga-ccttttcatggcc---...89...attgccacagtt	gaaaatcc
D.Ere	ttctgcta-	CCGTTCTTGtGTTATT	cgctgga-tgtttccatggtc---...90...cttgctacagct	gaaaaact
D.Ana	atacacca-	CCGTTCTTGtGTTATT	cactgga-tggt---attgtcaaa...93...attgcgacattt	gcactttt
D.Gri	ttttaata-	CCGTTCTTGtGTTATT	tgctgaa---tttagtttatcat...122...aaagtttcagta	gtacagat
D.Moj	ttacatta-	CCGTTCTTGtGTTATT	cgctgaa---ttgtactcccat...95...ctggccacattc	tatttaat
D.Per	-tatatc CG	CCGTTCTTGtGTTATT	cactggactcaccttatagt---...97...ttgctacagag	taatccca
D.Pse	-tatatc CG	CCGTTCTTGtGTTATT	cactggactcaccttatagt---...97...ttgctacagag	taatccca
D.Vir	aaagcta-	CCGTTCTTGtGTTATT	cgctgaa---tctgttaatctcg...95...ctcgccacattt	attcttaa
D.Yak	ttttacta-	CCGTTCTTGtGTTATT	cgctgga-tgttttcatggtc---...90...cttgctacagtt	aaaaaact
		*****	** *	* **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	catacgct	gtaagtaaatcg...256...-----cagcccttacgactcacgtt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...505...tgacttcgatag	atgccccg
D.Sim	catacgct	gtaagtaaatcg...256...-----cagcccttgcgactcacgtt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...543...tgactccgatag	atgccccg
D.Sec	catacgct	gtaagtaaatcg...256...-----cagcccttacgactcacgtt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...532...tgactccgatag	atgccccg
D.Ere	catacgct	gtaagtaaatcg...261...-----cagcccttacgactcacgtt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...501...tgactccgatag	atgctccg
D.Ana	catacgct	gtaagtaaatcg...257...-----atggccccttgctcacgtt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...439...tgactccaatag	atgccccca
D.Gri	catacgct	gtaagtaaaata...231...acttgaagtctct-----ccacatt	AATGACCAAGA	ttATGG	cgtaataaatgcattgcctt--...180...gctgcctgtag	acgcaccc
D.Moj	catacgct	gtaagtaaatgg...255...-tttgtgcccc---ctccacgtt	AATGACCAAGA	ttATGG	cacaatgaatgcattgcctt--...226...ttcgaccatag	acgcaccc
D.Per	catacgct	gtaagtaaacgc...288...-----cagccactcagctcacgtt	AATGACCAAGA	ttATGGCG	caatgaatgcattgccttgg...237...cgtctccggcag	acgcccc
D.Pse	catacgct	gtaagtaaacgc...288...-----cggccactcagctcacgtt	AATGACCAAGA	ttATGGCG	caatgaatgcattgccttgg...233...cgtctccggcag	acgcccc
D.Vir	catacgct	gtaagtaaatgc...254...-----cagctccaaacaccagctt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...206...ttcaccatag	acgcgccc
D.Yak	catacgct	gtaagtaaatcg...241...-----cagctccttacgactcacgtt	AATGACCAAGA	ttATGG	cgcaatgaatgcattgcctt--...578...tgactccgatag	atgctccg
	*****	*****	*	*** *****	** *****	** * * *

id=34618 gene=FBgn0038156 name=CG14372 segment=chr3R.9284728.9285569.1 type=IN VIEW

Figure 8: CS=15.4



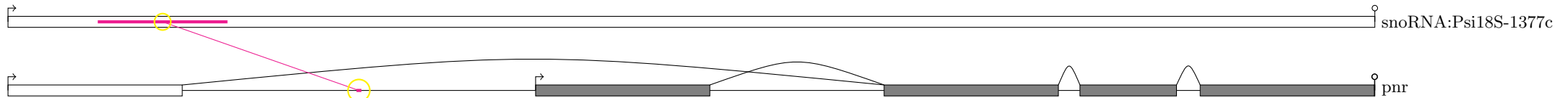
D.Mel	ttctac-ca	c-----CGTTCTTGtGTTA-----	ttcgctagatcttttcatgg----	...91...	attgctacagtt	gaatatcc
D.Sec	ttctag-ca	c-----CGTTCTTGtGTTA-----	ttcgctagaccttttcatgg----	...91...	attgccacagtt	gaaaatcc
D.Ere	-----tt	cTGCTacCGTTCTTGtGTTA-----	ttcgctggatgtttccatgg----	...92...	cttgctacagct	gaaaaact
D.Ana	atacac-ca	c-----CGTTCTTGtGTTA-----	ttcactggatgttattgtca----	...95...	attgcgacatt	gcactttt
D.Gri	ttttaa-ta	c-----CGTTCTTGtGTTATTGcTGAA	tttagtttatcattcagtg----	...115...	aaagtttcagta	gtacagat
D.Moj	ttacat-ta	c-----CGTTCTTGtGTTA-----	ttcgctgaattgtactccc----	...97...	ctggccacattc	tatttaat
D.Per	-tatatccg	c-----CGTTCTTGtGTTA-----	ttcactggactcaccttata----	...99...	tttgctacagag	taatccca
D.Pse	-tatatccg	c-----CGTTCTTGtGTTA-----	ttcactggactcaccttata----	...99...	tttgctacagag	taatccca
D.Vir	aaacgc-ta	c-----CGTTCTTGtGTTA-----	ttcgctgaatctgttaatct----	...97...	ctcgccacatt	attcttaa
D.Wil	attcag-ta	-----TCGTTCTTGtGTTATTG	-----ccgaatctttcatctagtt...	...182...	actgactgtgtt	gaatcctt
D.Yak	ttttac-ta	c-----CGTTCTTGtGTTA-----	ttcgctggatgttttcatgg----	...92...	cttgctacagtt	aaaaaact
		*****	*		*	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	agaataag	gtttttaagcaa...166...-----	ctttcatgtctcatcagaac	TAATCAAGtaAATG	agcacgaaatcgcaactg----	...330...	cgtgtaattcag	ttagagt
D.Sec	agaataag	gtttttaagcag...136...-----	ctttcatgtctcatcagaac	TAATCAAGtaAATG	agcacgaaatcgcaactg----	...334...	cgtgtaattcag	ttagagt
D.Ere	agaataag	gtttttaagcag...154...-----	ctttcatgtctcatcagaac	TAATCAAGtaAATGAGCA	cgaaatcgcaactgcaac...302...	cgtgtaattcag	ttagagt	
D.Ana	agaataag	gtttcagaaaa...137...-----	ctttcatgtctcatcagaac	TAATCAAGtaAATG	agcacgaaatcgcac-actgc---	...363...	cgtgtaattcag	ttagagt
D.Gri	aggatcag	gtttgaacatt...257...gctgccagcgc	tttcatgtTTCatCAAAac	TAATCAAGtaAATG	aacacgaatttataactcac----	...283...	cgtgtaattcag	ttagagt
D.Moj	aggatcag	gtttgactccg...1092...-----	ctttcatgtctcatcagaac	TAATCAAGtaAATG	aacacgaatttataaccac----	...347...	cgtgtaattcag	ttagagt
D.Per	agatccag	gttttacaata...122...-----	ctttcatgtctcatcaaac	TAATCAAGtaAATG	agcacaaaattgcactccac----	...252...	cgtgtaattcag	ttagagt
D.Pse	agatccag	gttttacaata...128...-----	ctttcatgtctcatcaaac	TAATCAAGtaAATG	agcacaaaattgcactccac----	...246...	cgtgtaattcag	ttagagt
D.Vir	aggatcag	gttaggctttc...464...-----	ctttcatgtctcatcaaac	TAATCAAGtaAATG	aacacaaaatttatagctcac----	...343...	cgtgtaattcag	ttagagt
D.Wil	aaaatcag	gtttcaacacac...169...-----	agctacctttcatgtctcat	CAAAacTAATCAAGtaAATGA	gcacaatatcgcac-acagca--...	...303...	catgtaattcag	ttagagt
D.Yak	agaataag	gttactaagcag...118...-----	ctttcatgtctcatcagaac	TAATCAAGtaAATG	agcacgaaatcgcacccgctg----	...344...	cgtgtaattcag	ttagagt
	*	**	***	*****	*****	*****	***	* * * * *

id=129618 gene=FBgn0039510 name=CG3339 segment=chr3R.23142368.23142941.-1 type=IN VIEW

Figure 9: CS=14.3



D.Mel	ttctacc----	A	CCGTTctTGTGTTATTCGC	taGATCT	-tt-tcatggcctagcgcgct...79...attgctacagtt	gaatatcc
D.Sim	tt----CTAGcA	CCGTTctTGTGTTATTCGC	tagacca-tt-tcatggcctag-----...86...attgccacagtt			gaaaatcc
D.Sec	tt----CTAGcA	CCGTTctTGTGTTATTCGC	tagacct-tt-tcatggcctag-----...86...attgccacagtt			gaaaatcc
D.Ere	----ttcTGCTA	CCGTTctTGTGTTATTCGC	tgatgt-tt-ccatggctag-----...87...cttgctacagct			gaaaaact
D.Gri	ttttaat----	A	CCGTTctTGTGTTATTCGC	tgaattagt-ttatcattca-----...119...aaagtctcagta		gtacagat
D.Moj	ttacatta----	CCGTTctTGTGTTATTCGC	tgaatgtga-ctcccattca-----...92...ctggccacattc			tatttaat
D.Per	-tatatcc----	G	CCGTTctTGTGTTATTCAC	tgactcacc-ttatagtcct-----...94...tttgctacagag		taatcca
D.Pse	-tatatcc----	G	CCGTTctTGTGTTATTCAC	tgactcacc-ttatagtcct-----...94...tttgctacagag		taatcca
D.Vir	aaacgcta----	CCGTTctTGTGTTATTCGC	tgaatctgttaatctcgttc-----...92...ctcgcacattt			attcttaa
D.Yak	ttttact----	A	CCGTTctTGTGTTATTCGC	tgatgt-tt-tcatggctag-----...87...cttgctacagtt		aaaaaact
			***** ** *			* **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180_-1 type=EN

D.Mel	tgattaat	gtaagtttaag...3456...tcaagttcgcagtcgctttc	AGATCgt	GTGGATGATCACA	ttAACGGTctggcgcatgatataaa	-----...1441...ttgtgacagtgg	acgaaggg----
D.Sim	tgaataat	gtaagttgaaat...3495...-----cgcagtcgctttcagatcgt	GTGGATGATCACA	ttAACGGTCTGG	cgcatgatataaaagctgt--...1405...ttgcagcagtgg	acgaaggg----	
D.Sec	tgaataat	gtaagttgaaat...3497...-----cgcagtcgctttcagatcgt	GTGGATGATCACA	ttAACGGTCTGG	cgcatgatataaaagctgt--...1403...ttgcagcagtgg	acgaaggg----	
D.Ere	caacaat	gtaagtttaaat...3514...-----cgcagtcgctttcagatcgt	GTGGATGATCACA	ttAACGGctTGGCG	catgatataaaagctgttc...1384...ttgcgagcagtgg	acggaggg----	
D.Gri	caatgaat	gcattttaaaag...3436...-----ggtcgcgtcaacaagatcgt	GTGGATGATCACA	ttAACGGTcaggcgcatgatataaa	-----...1468...--aagtgacac	tcgaagggaac-	
D.Moj	atattcat	acaagtttatg...3494...-----cgctcgtcaacaagatcgt	GTGGATGATCACA	ttAACGGgcccgcgcatgatataaa	-----...1411...--aagtgacac	tcgaagaaagg-	
D.Per	ggatttta	ttagtttaaat...3432...-----cagagcagagcgcagatcgt	GTGGATGATCACA	ttAACGGTctggcgcatgatataaa	-----...1472...tcgaaggggaag	accgaggg----	
D.Pse	acagtcaa	gtaagttgaaat...3440...-----cagagcagagcgcagatcgt	GTGGATGATCACA	ttAACGGTctggcgcatgatataaa	-----...1464...tcgaaggggaag	accgaggg----	
D.Vir	agagtcaa	gtaagttgaaa...2970...-----ggcatcgtcaacaagatcgt	GTGGATGATCACA	ttAACGGccaggcgcatgatataaa	-----...1935...--aagtgacac	gaggagcaacg	
D.Yak	aaaactat	gtaagtttaaat...3527...-----cgcagtcgctttcagatcgt	GTGGATGATCACA	ttAACGGTctggcgcatgatataaa	-----...1377...ttgtggcgtgg	acgggggc----	
	*	* *	***** * *****			* *	

id=48984 gene=FBgn0003117 name=pnr segment=chr3R.11852561.11860111.1 type=I5 VIEW

Figure 10: CS=11.8



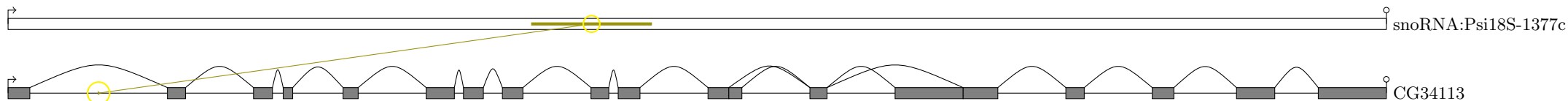
D.Me1	ttctacca-	CGGTTcTTGTGTTAT	tcgctaga-tcttttcatggc-...90...attgctacagtt	gaatatcc
D.Sim	ttctagca-	CGGTTcTTGTGTTAT	tcgctaga-ccatttcatggc-...90...attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CGGTTcTTGTGTTAT	tcgctaga-ccttttcatggc-...90...attgccacagtt	gaaaatcc
D.Ere	tt- CTGCT a	CGGTTcTTGTGTTAT	tcgctgga-tgtttccatggt-...91...cttgctacagct	gaaaaact
D.Ana	atacacca-	CGGTTcTTGTGTTAT	tcactgga-tgttattgtcaa-...94...attgacacattt	gcactttt
D.Moj	ttacatta-	CGGTTcTTGTGTTAT	tcgctgaa-tttg-tactccca-...96...ctggccacattc	tatttaat
D.Per	-tatat CCG	CGGTTcTTGTGTTAT	tcactggactcaccttatag-...98...tttgctacagag	taatccca
D.Pse	-tatat CCG	CGGTTcTTGTGTTAT	tcactggactcaccttatag-...98...tttgctacagag	taatccca
D.Vir	aaacgcta-	CGGTTcTTGTGTTAT	tcgctgaa-tctgttaatctc-...96...ctgcccacattt	attcttaa
D.Wil	attcagta-	TCGTTcTTGTGTTAT	ttgccgaa-atctttcatcta-...185...actgactgtgtt	gaatcctt
D.Yak	ttttacta-	CGGTTcTTGTGTTAT	tcgctgga-tgttttcatggt-...91...cttgctacagtt	aaaaaact
		*****	* * *	*

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Me1	gtcacaag	gtaggagaactt...737...--ta-aaaatggcaagcgaatt--	GTGAC--ACAA--AATGG	cggcagcgtgaaaaatcata-----...1114...cttttcttcag	aatgttgg
D.Sim	gtcacaag	gtaggagaactt...729...--ta-aaaatggcaagcgaatt--	GTGAC--ACAA--AATGG	cggcagcgtgaaaaatcata-----...1104...cttttcttcag	aatgttgg
D.Sec	gtcacaag	gtaggagaactt...729...--ta-aaaatggcaagcgaatt--	GTGAC--ACAA--AATGG	cggcagcgtgaaaaatcata-----...1104...cttttcttcag	aatgttgg
D.Ere	gtcacaag	gtaggagaactt...743...--ta-aaaatggcaagcgaatt--	GTGAC--ACAA--AATGG	GGCAG cgtgaaaaatcataaaaagg...984...ctttgcatgcag	aatgttgg
D.Ana	gtcacaag	gtaagtgaactt...739...--gt-aaaatggcaagcgaatt--	GTGAC--ACAA--AATGG	cggcagcgtgaaaaatcata-----...1081...tgcttttctcag	aatgtggg
D.Moj	gtcacaag	gtgagtgaggaa...140...gccggctaagtgg- ----cattct	GTGACccACAAcAATGG	ccccagc-tgtgctctgtgc- ----...1389...atgtctcgcag	aatgtggg
D.Per	gccacaag	gtaagccgaact...757...--tgtaaaatagcaggcg-aatt--	ATGAC--ACAA--AATGG	CGG cagcgtgaaaaatcataaaa- --...1531...ctgtcattccag	aatgtggg
D.Pse	gccacaag	gtaagccgaacg...866...--ta-aaaatagcaggcgaatt--	ATGAC--ACAA--AATGG	CGG cagcgtgaaaaatcataaaa- --...1370...ctgtcattccag	aatgtggg
D.Vir	gtcacaag	gtgagcgaatc...179...gtctgcaaagtgg- ----catttt	ATGACctACAAcAATGG	-----cacagaacaacaacaac...1885...attgtattgtag	aatgtggg
D.Wil	gtcacaag	gtaagggaat...1420...--gta-aaaatggca-gcgaatt--	GTGAC--ACAA--AATGG	cgtcagcgtgaaaaatcata-----...1693...tatttttgcag	aatgtggg
D.Yak	gtcacaag	gtaggagaactt...709...--ta-aaaatggcaggcgaatt--	GTGAC--ACAA--AATGG	cggcagcgtgaaaaatcata-----...1066...tttctttgcag	aatgttgg
	*	***** ** *	*** **	**** **	** ***** **

id=129160 gene=FBgn0037146 name=CG7470 segment=chr3L.21971475.21973403.1 type=IN

Figure 11: CS=12.98



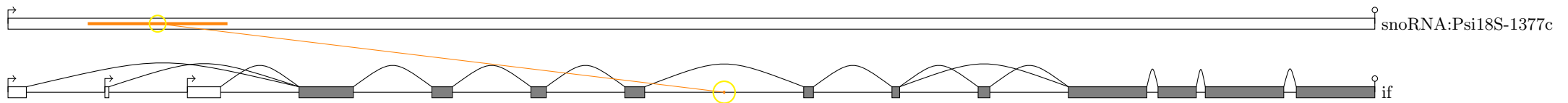
D.Me1	ttctacca	ccgttctt	gtgttatt	cgctaga-	tctttt	catggc	ctagcg	gagc--	GTCAA	CAGAAC	CGC	aaact	gaagc--	aacgaat	cac-----	...47..	attgct	acagtt	gaatatcc	
D.Sim	ttctagca	ccgttctt	gtgttatt	cgctaga-	ccattt	catgg--	CCTAGC	GAGc	GTCAA	CAGAAC	CGC	atact	gaagc--	aacgaat	cac-----	...47..	attgcc	acagtt	gaaaatcc	
D.Sec	ttctagca	ccgttctt	gtgttatt	cgctaga-	ctttt	catgg--	CCTAGC	GAGc	GTCAA	CAGAAC	CGC	atact	gaagc--	aacaaat	cac-----	...47..	attgcc	acagtt	gaaaatcc	
D.Ere	ttctgcta	ccgttctt	gtgttatt	cgctgga-	tgttt	catggtc-	TAGCG	GAGc	GTCAA	CAGAAC	CGC	atact	gaagc--	aacgaat	cac-----	...48..	cttgct	acagtt	gaaaaact	
D.Ana	atacacca	ccgttctt	gtgttatt	cactgga-	tgttat	tgtcaaat	ccca	GTGAt	TGTCAA	CAGAAC	CGC	aagat	caaag	caacta	atc-----	...50..	attgca	acattt	gcactttt	
D.Per	tatatccg	ccgttctt	gtgttatt	cactgga-	cactt	atagtc--	TGTGAt	TGTCAA	CAGAAC	CGT	acagta	aaact	caaag	caact--	-----	...54..	ttgcta	acagag	taatccca	
D.Pse	tatatccg	ccgttctt	gtgttatt	cactgga-	cactt	atagtc--	TGTGAt	TGTCAA	CAGAAC	CGT	acagta	aaact	caaag	caact--	-----	...54..	ttgcta	acagag	taatccca	
D.Vir	aaacgcta	ccgttctt	gtgttatt	cgctgaa-	tctgt	taatct	CGTTc	AGCGAt	TGTCAA	CAGAAC	CGC	aaagc	ga-----	act--	ccagg	ccagtt	...51..	ctgcc	acattt	attcttaa
D.Wil	attcagta	tcgttctt	gtgttatt	ggcga-	atctt	catctag	ttcg	GTGAt	TGTCAA	CAGAAC	CGC	agaata	aaagc	attact	--ccac	-----	...140..	actgact	gtgtt	gaatcctt
D.Yak	ttttacta	ccgttctt	gtgttatt	cgctgga-	tgttt	tcatgg--	TCTAGT	GAGc	GTCAA	CAGAAC	CGC	atact	gagc--	aacgaat	cac-----	...48..	cttgct	acagtt	aaaaaact	
		*****			*	*		*	*	*****	*	*		*	*			*		

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Me1	tgatccag	gtgagt	ggattt	...4317..	gacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	-----	atttact	taggaa	atcgac	ga-----	...595..	ctccct	ttttag	tttccacg	
D.Sim	tgatccag	gtgagt	ggattt	...4238..	gacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTTGCT	AGG	-----	aaatcg	acga	aggagtc	gag...664..	ctccc	tttcag	tttccacg
D.Sec	tgatccag	gtgagt	ggattt	...4236..	gacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTTGCT	AGG	-----	aaatcg	acga	aggagtc	gag...666..	ctccc	tttcag	tttccacg
D.Ere	tgatccag	gtgagt	ggattt	...4287..	gacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTTGCT	A	-----	tgaatc	gacga	aggagtc	g...617..	ctccc	tttcag	tttccacg
D.Ana	cgatccag	gtgagt	gactac	...4552..	-acgtg	acactt	aaaagg	caCGT	TTTGTG	A	TTGT	-----	agaaat	cgac	gaaggagtc	---355..	at	tttttt	tttcag
D.Per	cgatccag	gtgagt	gggtggc	...4696..	aacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTGT	A	-----	agaaat	cgac	gaaggagtc	---209..	ttat	ctttg	tttcag
D.Pse	cgatccag	gtgagt	gggtggc	...4696..	aacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTGT	A	-----	agaaat	cgac	gaaggagtc	---209..	tttt	ctttg	tttcag
D.Vir	cgatccag	gtgagt	gagtg	...4733..	ggcgtg	acagtt	aaaagg	caCGGTTT	TGTTGAC	TTGT	TGATG	ttta	agaaat	cgac	gaaggagtc	---168..	ctct	ctttg	tttcag
D.Wil	tgatccag	gtaagt	gacgag	...4709..	aacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTGT	-----	agaaat	cgac	gaaggagtc	---197..	ttct	cattg	tttcag	
D.Yak	tgatccag	gtgagt	ggattt	...4229..	gacgtg	acactt	aaaagg	caCGGTTT	TGTTGAC	TTTGCT	AGG	-----	aaatcg	acga	aggagtc	gag...673..	ctcc	ctttc	tttcag
	*****	**	****		*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****		**	**	**

id=5784 gene=FBgn0083949 name=CG34113 segment=chr3R.1729571.1765085.-1 type=IN VIEW

Figure 12: CS=11.8



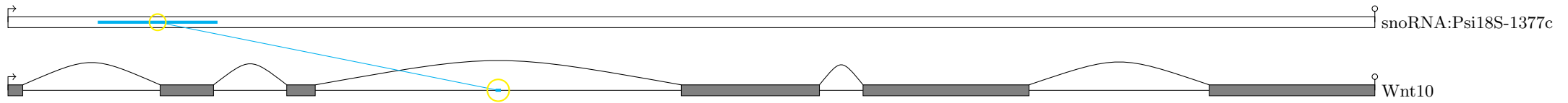
D.Mel	ttctacca-----	CCGTtCTTGtGTTAT	tcgctagatcttttcatggc-...90...attgctacagtt	gaatatcc
D.Sim	ttctagca-----	CCGTtCTTGtGTTAT	tcgctagaccatttcatggc-...90...attgccacagtt	gaaaatcc
D.Sec	ttctagca-----	CCGTtCTTGtGTTAT	tcgctagaccttttcatggc-...90...attgccacagtt	gaaaatcc
D.Ere	ttc-----TGCTa	CCGTtCTTGtGTTAT	tcgctggatgtttccatggt-...91...cttgctacagct	gaaaaact
D.Gri	ttttaata-----	CCGTtCTTGtGTTAT	ttgctgaatttagt-ttatca...123...aaagtttcagta	gtacagat
D.Moj	ttacatta-----	CCGTtCTTGtGTTAT	tcgctgaatttg-tactcca...96...ctggccacattc	tatttaat
D.Per	-tatatcgg-----	CCGTtCTTGtGTTAT	tcactggactca-ccttatag...98...tttgctacagag	taatccca
D.Pse	-tatatcgg-----	CCGTtCTTGtGTTAT	tcactggactca-ccttatag...98...tttgctacagag	taatccca
D.Vir	-----aaaCGCTa	CCGTtCTTGtGTTAT	tcgctgaatctgttaatctc-...96...ctgccacatt	attcttaa
D.Yak	ttttacta-----	CCGTtCTTGtGTTAT	tcgctggatgttttcatggt-...91...cttgctacagtt	aaaaaact
		*****	** * * *	**

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	ccggacaa	gtgagtatcgat...2246...-gcccttgc-taaaaactaattGTAATtCAAGACGG	-ggcgattttattatgggaat----	...1151...ctttcgttgcag	acaactgg
D.Sim	ccggacaa	gtgagtatcgat...2154...-gcccttgc-taaaaactaattGTAATtCAAGACGG	-ggcgattttattatgggaat----	...1167...ctttcgttgcag	acaactgg
D.Sec	ccggacaa	gtgagtatcaat...2101...-gcccttgc-taaaaactaattGTAATtCAAGACGG	-ggcgattttattatgggaat----	...1159...ctttcgttgcag	acaactgg
D.Ere	ccggacaa	gtgagtatcgat...2048...-gcccttgc-taaaaactaattGTAATtCAAGACGGGGCG	-attttattatgggaattact...	...1127...ctctcgttgcag	acaactgg
D.Gri	tcgcacaa	gtaagtgggtcg...2769...-cccttgcgcagactaattGTAATtCAAGACGG	ggcgattttattatgggaat----	...1089...cactccttgcag	atcattgg
D.Moj	ccgcacaa	gtaagtgggtcg...3336...-agcccttg--caaagactaattGTAATtCAAGACGG	ggcgattttattatgggaat----	...1575...tttttcttacag	acaactgg
D.Per	tcggacaa	gtgagtaaaagc...2566...tgcccttgc-t-aaaaactaattGTAATtCAAGACGG	-ggcgattttattatgggaat----	...1481...tcctacttgcag	acaactgg
D.Pse	tcggacaa	gtgagtaaaagc...2566...-gcccttgc-taaaaactaattGTAATtCAAGACGG	-ggcgattttattatgggaat----	...1764...tcctacttgcag	acaactgg
D.Vir	tcgcacaa	gtaagtgggtcg...3889...-cccttgcgccagactaattGTAATtCAAGACGGGGCG	attttattatgggaattacg...	...1017...aactccttgcag	acaactgg
D.Yak	ccggacaa	gtgagtatcgat...3156...-gcccttgc-taaaaactaattGTAATtCAAGACGG	-ggcgattttattatgggaat----	...1193...ctctcgttgcag	acaactgg
	** ****	** ****	*****	* *****	*****

id=66608 gene=FBgn0001250 name=if segment=chrX.16655043.16658517.-1 type=IN

Figure 13: CS=11.8



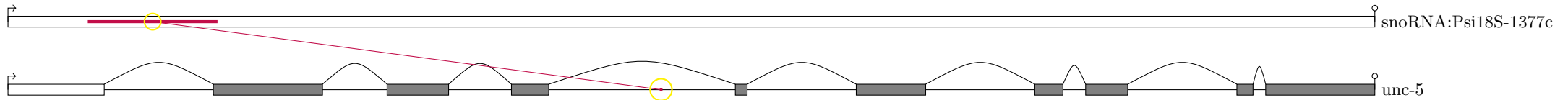
D.Mel	ttctac-ca	cCGTTCTTGTTAT	tcgctaga-tctttcatggc-...90...attgctacagtt	gaatatcc
D.Sim	ttctag-ca	cCGTTCTTGTTAT	tcgctaga-ccatttcatggc-...90...attgccacagtt	gaaaatcc
D.Sec	ttctag-ca	cCGTTCTTGTTAT	tcgctaga-ccttttcatggc-...90...attgccacagtt	gaaaatcc
D.Ere	ttctgc-ta	cCGTTCTTGTTAT	tcgctgga-tgtttccatggt-...91...cttgctacagct	gaaaaact
D.Ana	atacac-ca	cCGTTCTTGTTAT	tcactgga-tgttattgtcaa-...94...attgcgacattt	gcactttt
D.Gri	tttta-ATA	cCGTTCTTGTTAT	ttgctgaa-tttagt-ttatca-...123...aaagtttcagta	gtacagat
D.Moj	ttacat-ta	cCGTTCTTGTTAT	tcgctgaa-tttg-tactcca-...96...ctggccacattc	tatttaat
D.Per	-tatatccg	cCGTTCTTGTTAT	tcactggactcaccttatag-...98...tttgctacagag	taatccca
D.Pse	-tatatccg	cCGTTCTTGTTAT	tcactggactcaccttatag-...98...tttgctacagag	taatccca
D.Vir	aaacgc-ta	cCGTTCTTGTTAT	tcgctgaa-tctgttaatctc-...96...ctgccacattt	attcttaa
D.Yak	ttttac-ta	cCGTTCTTGTTAT	tcgctgga-tgttttcatggt-...91...cttgctacagtt	aaaaaact
		*****	** *	* **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gaagaaag	gtgagttggccg...3039...tcttgggtttctctcgactt	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1344...tttccgttttag	gctaccga
D.Sim	gaagaaag	gtgagttggccg...3024...tcttgggtttctctcgactt	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1348...tttccgttttag	gctaccgg
D.Sec	gaagaaag	gtgagttggccg...3032...tcttgggtttctctcgactt	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1346...tttccgttttag	gctaccgg
D.Ere	gaagaaag	gtgagttggccg...3200...tcttgggtttctctggactt	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1324...tttccgttttag	gctaccgg
D.Ana	gaagaaag	gtgagttcactc...3486...ctctgtctctcgtgctcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1422...gcccatttttag	ggtaccgg
D.Gri	aacgaaag	gtgagtggtgt...3270...ctcagttcagccaaatgcat	GTGACaACAAGcgAGCG	GTAT gtcgcaacaattacttggg...	...1266...tcttacatgcag	gctatcgg
D.Moj	gaagaaag	gtaagtggtag...3471...ctcgtttcagccaaatgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1310...ctgcttcgcag	gctatcgg
D.Per	gaagaaag	gtaggttcccag...2754...ctttcgtttccctctgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1292...ctttccttttag	gctacagg
D.Pse	gaagaaag	gtaggttcccag...2750...ctttcgtttctctctgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1274...ctttccttttag	gctacagg
D.Vir	caagaaag	gtgagtttag...3675...ctcgtttcagccaaatgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1233...tcttctcaacag	gctatcgg
D.Yak	gaagaaag	gtgagttggccg...3086...tcttgggtttctctggactt	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----	...1378...ttgccgttttag	gctaccgg
	* ** **	** **	*	*****	** ** *	** ** *

id=9496 gene=FBgn0031903 name=Wnt10 segment=chr2L.7370392.7374855.1 type=IN

Figure 14: CS=11



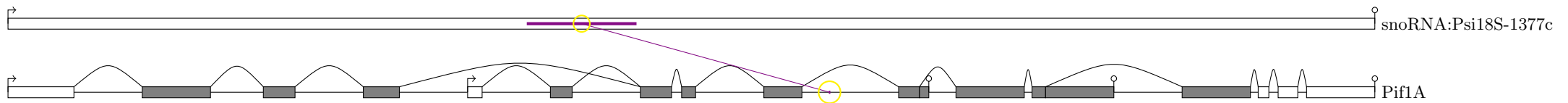
D.Me1	ttctacca-	CCGTtcTTGTGTTA	ttcgctagatcttttcatgg...91...attgctacagtt	gaatatcc
D.Sim	ttctagca-	CCGTtcTTGTGTTA	ttcgctagaccatttcatgg...91...attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CCGTtcTTGTGTTA	ttcgctagaccttttcatgg...91...attgccacagtt	gaaaatcc
D.Ere	ttc-TGCTa	CCGTtcTTGTGTTA	ttcgctggatgtttccatgg...92...cttgctacagct	gaaaaact
D.Ana	atacacca-	CCGTtcTTGTGTTA	ttcactggatgttattgtca...95...attgcgacattt	gcactttt
D.Gri	ttttaata-	CCGTtcTTGTGTTA	tttgcgaatttagttatc...124...aaagtttcagta	gtcacagat
D.Moj	ttacatta-	CCGTtcTTGTGTTA	ttcgctgaattgtactccc...97...ctggccacattc	tatttaat
D.Per	-tatatccg	CCGTtcTTGTGTTA	ttcactggactcacctata...99...ttgctacagag	taatccca
D.Pse	-tatatccg	CCGTtcTTGTGTTA	ttcactggactcacctata...99...ttgctacagag	taatccca
D.Vir	aaagccta-	CCGTtcTTGTGTTA	ttcgctgaatctgttaatct...97...ctcgccacattt	attcttaa
D.Yak	tttacta-	CCGTtcTTGTGTTA	ttcgctggatgttttcatgg...92...cttgctacagtt	aaaaaact
		*****	** *	* **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180_-1 type=EN

D.Me1	atgtccag	gtacgttcctgc...1278...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----gccaaatgggtgatgggaaa...309...cgccaacaacag	aggacact
D.Sim	atgtccag	gtacgttcctgc...1328...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----gccaaatgggtgatgggaaa...293...cgccaacaacag	aggacact
D.Sec	atgtccag	gtacgttcctgc...1295...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----gccaaatgggtgatgggaaa...301...cgccaacaacag	aggacact
D.Ere	atgtccag	gtacgttcctgc...1303...gcacagcaatgagcaattgt	TGACagACAAGCGGGGCA	aatgggagatggtagatggg---...320...tgccaacaacag	aggacact
D.Ana	ctgcccag	gtatgtacacgt...1211...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----ggcaaatgggaacgggattg...331...tgccaacaacag	aggacact
D.Gri	atgtccag	gtatgcaaagcg...1396...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----ggcaaatggagcgcagtaca...345...caacaacaacag	aggacact
D.Moj	atgtccag	gtaaaaccgaaa...1698...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----ggcaaatggagctgccaaca...337...cgacatctacag	aggacact
D.Per	ctgcccag	gtatgtccacac...1043...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----gacaaatggtgaggatcgg...275...tgccaacaacag	aggatact
D.Pse	ctgcccag	gtatgtccacac...1042...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----gacaaatggtgaggatcgg...282...tgccaacaacag	aggatact
D.Vir	atgtccag	gtatgccaaaag...1392...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----ggcaaatgggacgggagcag...314...caacaacaacag	aggacact
D.Yak	atgtccag	gtacgttcctgc...1422...gcacagcaatgagcaattgt	TGACagACAAGCGG	-----ggcaaatgggcgatgggaaa...358...tgccaacaacag	aggacact
	** **	***	*****	* * **	** * **

id=117644 gene=FBgn0034013 name=unc-5 segment=chr2R.11246255.11247919_1 type=IN

Figure 15: CS=12.98



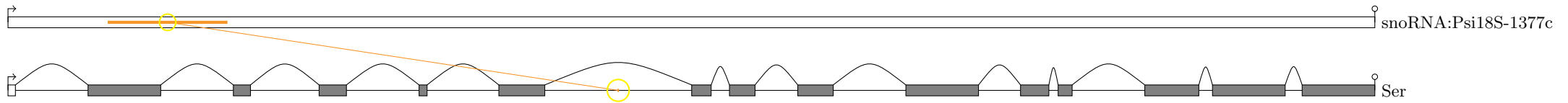
D. Mel	ttcta-cca	ccgttctt	gtgttatt	cgctagat	-ct-ttt	catggc	ctagcgagc	GTCAAACAGAAC	g-----	caactga	agcaacga	atc...49...	attgctacagtt	gaatatcc
D. Sim	ttcta-gca	ccgttctt	gtgttatt	cgctagac	-ca-ttt	catggc	ctagcgagc	GTCAAACAGAAC	g-----	catactga	agcaacga	atc...49...	attgccacagtt	gaaatcc
D. Sec	ttcta-gca	ccgttctt	gtgttatt	cgctagac	-ct-ttt	catggc	ctagcgagc	GTCAAACAGAAC	g-----	catactga	agcaacga	atc...49...	attgccacagtt	gaaatcc
D. Ere	ttctg-cta	ccgttctt	gtgttatt	cgctggat	-gt-ttc	catggc	ctagcgagc	GTCAAACAGAAC	g-----	catactga	agcaacga	atc...50...	cttgctacagct	gaaaaact
D. Ana	ataca-cca	ccgttctt	gtgttatt	cactggat	gttatt	gtcaaat	ccagtgat	TGTCAAACAGAAC	g-----	aagatcaa	agcaacga	atc...51...	attgacagatt	gcactttt
D. Gri	tttta-ata	ccgttctt	gtgttatt	gtgtaat	-ttagt	ttatcatt	cagtgat	TGTCAAACAGAAC	gcacaaca	aaactcca	agcca-----	81...	aaagttcagta	gtacagat
D. Moj	ttaca-tta	ccgttctt	gtgttatt	cgctgaat	-ttgact	cccatt	cagcgat	TGTCAAACAGAAC	gcacagaa	aatccaag	tca-----	54...	ctggccacattc	tatttaat
D. Per	-tatatccg	ccgttctt	gtgttatt	cactggac	-tcacct	tatagt	cctgtga	TGTCAAACAGAAC	gtacagta	aaactcaa	agcaa-----	56...	tttgctacagag	taatccca
D. Pse	-tatatccg	ccgttctt	gtgttatt	cactggac	-tcacct	tatagt	cctgtga	TGTCAAACAGAAC	gtacagta	aaactcaa	agcaa-----	56...	tttgctacagag	taatccca
D. Yak	tttta-cta	ccgttctt	gtgttatt	cgctggat	-gt-ttt	catggc	ctagtgagc	GTCAAACAGAAC	g-----	catactga	cgcaacga	atc...50...	cttgctacagtt	aaaaaact
	*	***** ** *												

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	gcgataag	gtag-gcaa	acgg...157...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccag	cacggaa	at...904...	atctcaatctag	atggagag	
D. Sim	gcgataag	gtag-gcaa	acgg...157...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccag	cacggaa	at...891...	tctccgatctag	atggagag	
D. Sec	gcgataag	gtag-gcaa	acgg...166...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccag	cacggaa	at...887...	tctccgatctag	atggagag	
D. Ere	gcgataag	gtag-gcaa	acgg...164...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccag	cacggaa	at...974...	gtttcgatctag	atggagag	
D. Ana	acgataag	gtaagacc	ccgat...173...	tcgggtg	ctgctggc	--tca	GTTTTG	-TTTGGC	tct-----	aagtcagt	gcggaa	at...946...	aactgtttcag	atggagag	
D. Gri	agagagag	agagaaga	agag...208...	tcgtg	cc-taaca	atggt-tta	GTTTTG	-TTTGGC	atct-----	tagccagt	gcggaa	at...2342...	gactcccctcag	atggatgg	
D. Moj	atgataag	gtaaacaga	aaa...648...	-cgtgc	cttaaca	atggt-tta	GTTTTG	-TTTGGC	tct-----	tatagagt	gcggaa	at...1689...	cattatccag	atggatgg	
D. Per	gcgataag	gtagtgca	agcc...188...	-cgtgtg	-gaaca	atggcgcca	GTTTTG	-TTTGGC	atctgccc	agagagc	gagcgcg	g-----	1169...	tcgccccaccag	atggacag
D. Pse	gcgataag	gtagtgcca	acc...188...	-cgtgtg	-gaaca	atggcgcca	GTTTTG	-TTTGGC	atctgccc	agagagc	gagcgcg	g-----	1201...	tcgccccaccag	atggacag
D. Yak	gcgataag	gtag-gcaa	acgg...156...	--gtgtg	ctggagt	ctcattta	GTTTTG	-TTTGGC	atct-----	aagccag	cacggaa	at...1031...	gtttcgatctag	atggagag	
	**	*	***** ** *										**	***** *	

id=128167 gene=FBgn0261015 name=Pif1A segment=chr3R.4610315.4611451.-1 type=IN VIEW

Figure 16: CS=14



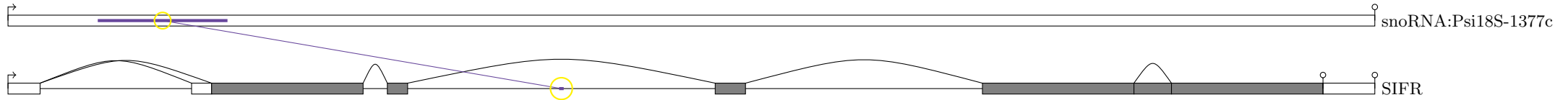
D.Mel	ttctacca	cc----	GTTcTGTGTTATtCGCT	-----	agatcttttcatggcctagc-----	...85...	attgctacagtt	gaatatcc
D.Sim	ttctagca	cc----	GTTcTGTGTTATtCGCT	-----	agaccatttcatggcctagc-----	...85...	attgccacagtt	gaaaatcc
D.Sec	ttctagca	cc----	GTTcTGTGTTATtCGCT	-----	agacccttttcatggcctagc-----	...85...	attgccacagtt	gaaaatcc
D.Ere	ttctgcta	cc----	GTTcTGTGTTATtCGCTGGATGTT	-----	tccatggtctagcgagcgtc...	79...	cttgctacagct	gaaaaact
D.Ana	atacacca	cc----	GTTcTGTGTTAT	-----	tcactggatgttattgtcaa----	...94...	attgcgacattt	gcactttt
D.Gri	ttttaata	cc----	GTTcTGTGTTATtTGCTGAAT	-----	ttagtttatcattcagtgat-----	...114...	aaagtttcagta	gtacagat
D.Moj	----tta	caTTAC	GTTcTGTGTTATtCGCTGAAT	-----	ttgtactcccattcagcgat-----	...87...	ctggccacattc	tatttaat
D.Per	tatatccg	cc----	GTTcTGTGTTAT	-----	tcactggactcaccttatag----	...98...	tttgctacagag	taatccca
D.Pse	tatatccg	cc----	GTTcTGTGTTAT	-----	tcactggactcaccttatag----	...98...	tttgctacagag	taatccca
D.Vir	aaacgcta	cc----	GTTcTGTGTTATtCGCTGAATctGTTAAT	-----	ctcgttcagcgattgtcaaa-----	...79...	ctcgccacattt	attcttaa
D.Wil	attcagta	tc----	GTTcTGTGTTAT	-----	ttgccgaaatctttcat---cta-----	...185...	actgactgtgt	gaatcctt
D.Yak	ttttacta	cc----	GTTcTGTGTTATtCGCTGgaTGTT	-----	ttcatggtctagtgagcgtc...	79...	cttgctacagtt	aaaaaact
			*****		*		*	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gaatgcga	gtaagtagctta...1888...	-----	gttgccgttgtaaatgctgc-----	AGCGTAACACAGAAT	acgtgagccggcggccatga-----	...1223...	ttaatccacag	atgcagac
D.Sim	gaatgcga	gtaagtagctta...1858...	-----	gttgccgttgtaaatgctgc-----	AGCGTAACACAGAAT	acgtgagccggcggccatga-----	...1230...	ttaatccacag	atgcagac
D.Sec	gaatgcga	gtaagtagctta...1839...	-----	gttgccgttgataaatgctgc-----	AGCGTAACACAGAAT	acgtgagccggcggccatga-----	...1219...	ttaatccacag	atgcagac
D.Ere	gaatgcga	gtaagtagcttt...1816...	...	cagttggtgtgcccgttgtt-----	AATGcTCCAGCGTAACACAGAAT	acgtgagccggcggccatga-----	...1196...	ttaatccacag	atgcagac
D.Ana	gaatgcga	gtaagtagccgt...1059...	-----	gccgttgtaaatgttcagc-----	GTAACACAGAAT	acgtgagccggcggccatga-----	...1099...	ttaccatttcag	atgccgac
D.Gri	gaatgcga	gtaagtacacta...1150...	---	ttgttgttgccgttgtaaat-----	GTTTgAGCGTAACACAGAAT	acgtgagccggcggccatga-----	...1220...	tcacacaaccag	gtgtcgac
D.Moj	gaatgcga	gtaagtacatca...1354...	---	ttgttgttgccgttgtaaat-----	GTTcGAGCGTAACACAGAAT	acGTGA	gccagcggcattgcat...1323...	cgctccgaacag	atgtcgac
D.Per	gaatgcga	gtaagtgggtcaa...864...	-----	gccgttgtaaatgttcagc-----	GTAACACAGAAT	acgtgagccagcggccatga-----	...939...	cgctgatcacag	atgccgac
D.Pse	gaatgcga	gtaagtgggtcaa...811...	-----	gccgttgtaaatgttcagc-----	GTAACACAGAAT	acgtgagccagcggccatga-----	...935...	cgctgatcacag	atgccgac
D.Vir	gaatgcga	gtaagtactcaa...1226...	-----	ttgtgctgtgttcgcttGTTAATGTTTg	AGCGTAACACAGAAT	acgtgagccagcggccatga-----	...1116...	aatttaaccag	atgtagac
D.Wil	gaatgcga	gtaagtcaagtc...771...	-----	gccgttgtaaatgttcagc-----	GTAACACAGAAT	acgtgagccagcggccatga-----	...1609...	taccatttcag	gtgtcgac
D.Yak	gaatgcga	gtaagtagcttt...1782...	...	cagtggtgtgtgcccgttgtt-----	AATGcaCCAGCGTAACACAGAAT	acgtgagccggcggccatga-----	...1283...	ttaatccacag	atgcagac
	*****	*****		** ***	*****	**** *****		***	** ***

id=18685 gene=FBgn0004197 name=Ser segment=chr3R.23005530.23008719.-1 type=IN VIEW

Figure 17: CS=14.16



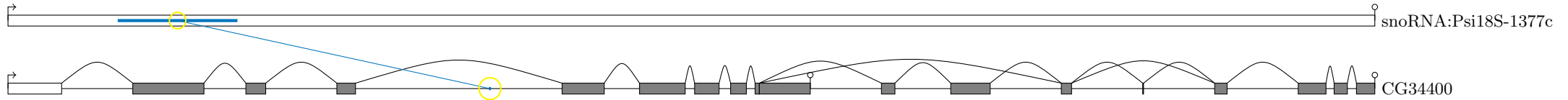
D.Mel	ttctacca	CGTTCCTGTgTTATT	cgctagatct-tttcatggcc---	...89...	attgctacagtt	gaatatcc
D.Sim	ttctagca	CGTTCCTGTgTTATT	cgctagacca-tttcatggcc---	...89...	attgccacagtt	gaaaatcc
D.Sec	ttctagca	CGTTCCTGTgTTATT	cgctagacct-tttcatggcc---	...89...	attgccacagtt	gaaaatcc
D.Ere	ttctgcta	CGTTCCTGTgTTATT	cgctggatgt-ttccatggtc---	...90...	cttgctacagct	gaaaaact
D.Ana	atacacca	CGTTCCTGTgTTATT	cactggatgt-t---attgtcaaa...	93...	attgcgacattt	gcactttt
D.Gri	ttttaata	CGTTCCTGTgTTATT	gctgaattagttatcatt---	...121...	aaagtttcagta	gtacagat
D.Vir	aaacgcta	CGTTCCTGTgTTATT	cgctgaatct-gttaatctcg---	...95...	ctcgccacattt	attcttaa
D.Wil	attcagta	TCGTTCCTGTgTTATT	gccgaaatc-tttcat--ctagt...	183...	actgactgtgtt	gaatcctt
D.Yak	ttttacta	CGTTCCTGTgTTATT	cgctggatgt-tttcatggtc---	...90...	cttgctacagtt	aaaaaact
	*	*****	* * **		*	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	ctttgtgc	gtaagtatctct...3744...	-aaaaagcgacaac-aaataga	GATAAGACAGGcgAACG	-----agacaggaattag--gagccc...	1164...	tggaactcgcag	cctggatg
D.Sim	ctttgtgc	gtaagtatctct...3763...	-aaaaagcgacaac-aaatcga	GATAAGACAGGcgAACG	-----agacaggaattag--gagccc...	1145...	tggaactcgcag	cctggatg
D.Sec	ctttgtgc	gtaagtatctct...3760...	-aaaaagcgacaac-aaatcga	GATAAGACAGGcgAACG	-----agacaggaattag--gagccc...	1148...	tggaactcgcag	cctggatg
D.Ere	ctttgtgc	gtaagtatctct...3700...	-aaaaagcgacaac-aaatcga	GATAAGACAGGcgAACG	-----agacaggaattag--gagccc...	1208...	tggaactcgcag	cctggatg
D.Ana	ctttgtgc	gtaagtagtagc...3868...	-aaaaagcgacaac-aaatcga	GATAAGACAGGcgAACG	-----agacaggaattag--aagccc...	1040...	accaacgaccag	cctggatg
D.Gri	ctttgtcc	gtaagtagacc...3727...	-aataagcgacagcaaatcg	AGATAAGACAGGcgAACG	-----agacaggaattagctaagg---	1180...	tgttatttttag	cctggatg
D.Vir	ttttgtgc	gtaagtaaaagc...3152...	-aaaagtccagagc-caaacga	GATAAGACAGGcgAACG	agacacgagacaggaatga-----	1756...	ctttcattccag	cctggatg
D.Wil	ctttgtgc	gtaagtacatta...4074...	taaaaagtgaaaac-aaatcg	AGATAAGACAGGcgAACG	-----gacaggaattag--ccgtccg...	832...	ttcttcttag	cctggatg
D.Yak	ctttgtgc	gtaagtatctcc...3709...	-aaaaagcgacaac-aaatcga	GATAAGACAGGcgAACG	-----agacaggaattag--gagccc...	1199...	tggaactcgcag	cctggatg
	**** *	*****	** * * * *	*****	***** *	**	*****	*****

id=40078 gene=FBgn0038880 name=SIFR segment=chr3R.17109900.17116893.-1 type=IN VIEW

Figure 18: CS=11.7



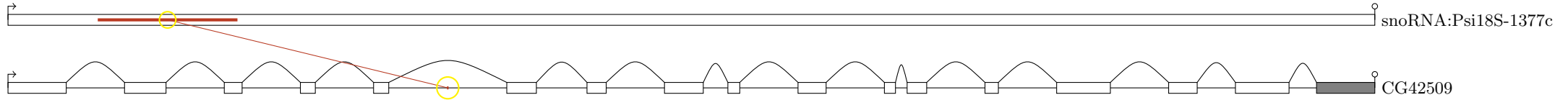
D.Me1	ttctacca	ccgTTCTTGTTATT	cgctagatcttttca--tggcc...89...attgctacagtt	gaatatcc
D.Sim	ttctagca	ccgTTCTTGTTATT	cgctagaccatttca--tggcc...89...attgccacagtt	gaaaatcc
D.Sec	ttctagca	ccgTTCTTGTTATT	cgctagaccctttca--tggcc...89...attgccacagtt	gaaaatcc
D.Ere	ttctgcta	ccgTTCTTGTTATT	cgctggatgtttcca--tggtc...90...cttgctacagct	gaaaaact
D.Gri	ttttaata	ccgTTCTTGTTATTG	ctgaatttagtttattcattc...120...aaagttcagta	gtacagat
D.Moj	ttacatta	ccgTTCTTGTTATT	cgctgaattt-g-tactcccat...95...ctggccacattc	tatttaat
D.Vir	aaacgcta	ccgTTCTTGTTATT	cgctgaatct-gttaatctcg...95...ctgccacattt	attcttaa
D.Wil	attcagta	tcgTTCTTGTTATTG	ccgaaatctttcatctagtt...182...actgactgtgtt	gaatcctt
D.Yak	ttttacta	ccgTTCTTGTTATT	cgctggatgttttca--tggtc...90...cttgctacagtt	aaaaaact
		*	***** * *	*

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Me1	cgctg-aag	gtaagcatcca...1153...--atcaataatacactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...851...ttcttaacgcag	agatgtgt
D.Sim	cgctg-aag	gtgagcatcca...1115...--atcaataatacactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...845...ttcttaacgcag	agatgtgt
D.Sec	-gctgaaag	gtgagcatcca...1056...--atcaataatacactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...846...ttcttaacgcag	agatgtgt
D.Ere	cgctg-aag	gtgagcatgcca...1156...--atcaataatacactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...849...ttcttaacgcag	agatgtgt
D.Gri	cgctt-aag	gtgagcctaaact...1018...caacaaaataacactaata	CAATAACACTGAGAA	aaaattggcaatagattagt...884...ttcttaacgcag	agatgtgt
D.Moj	cgctt-aag	gtgagctaaact...1001...--aaactacacacactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...1077...ttcttaacgcag	agatgtgt
D.Vir	cgctt-aag	gtgagcaaaact...1108...aaaaaaaa--acactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...872...ttcttaacgcag	agatgtgt
D.Wil	cgctg-aag	gtaatctattta...1750...aaaaaaaaatacactaata	CAATAACACTGAGAA	aaaattggcaatagattagt...1027...ttcttaacgcag	agatgtgt
D.Yak	cgctg-aag	gtgagcatcca...1146...--atcaataatacactaataaca	AATAACACTGAGAA	aaaattggcaatagattagt...848...ttcttaacgcag	agatgtgt
		*** **	*****	***** **	*****

id=113723 gene=FBgn0085429 name=CG34400 segment=chr3L.13880566.13882648.-1 type=IN

Figure 19: CS=11.7



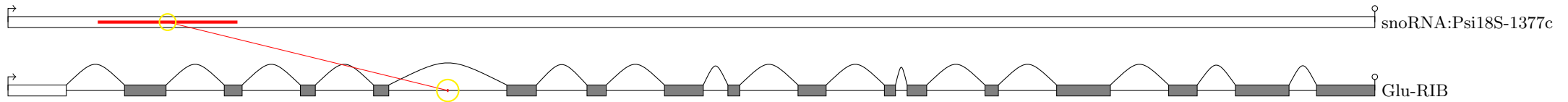
D.Mel	ttctacca	cCGTTctTGTGTTATTcgctaga-tcttttcatggcc...	89...	attgctacagtt	gaatatcc
D.Sim	ttctagca	cCGTTctTGTGTTATTcgctaga-ccatctcatggcc...	89...	attgccacagtt	gaaaatcc
D.Sec	ttctagca	cCGTTctTGTGTTATTcgctaga-ccttttcatggcc...	89...	attgccacagtt	gaaaatcc
D.Ana	atacacca	cCGTTctTGTGTTATTcactgga-tgttattgtcaaa...	93...	attgcgacatt	gcactttt
D.Gri	ttttaata	cCGTTctTGTGTTATTtgctgaatttagttatcat...	122...	aaagtttcagta	gtacagat
D.Per	tatatcog	cCGTTctTGTGTTATTcactggactcaccttatagt-	97...	tttgctacagag	taatccca
D.Pse	tatatcog	cCGTTctTGTGTTATTcactggactcaccttatagt-	97...	tttgctacagag	taatccca
D.Wil	attcagta	tCGTTctTGTGTTATTtgccgaa-atctttcatctag...	184...	actgactgtgtt	gaatcctt
D.Yak	ttttacta	cCGTTctTGTGTTATTcgctgga-tgttttcatggtc...	90...	cttgctacagtt	aaaaaact
		*****	* * * *	*	*

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	ccacgatg	gtgagtacagcc...3653...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1258...	tactaccgcag	gtctgctg
D.Sim	ccacgatg	gtgagtacagcc...3649...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1262...	tactaccgcag	gtctgctg
D.Sec	ccacgatg	gtgagtacagcc...3648...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1263...	tactaccgcag	gtctgctg
D.Ana	ccacgatg	gtgagtacaacc...3877...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1034...	actattccgcag	gtctgctg
D.Gri	ccacgatg	gtgagtacaaa...3871...	..aagagagcgacag--ataactc	AATAAgCACAAATG	caaattgcgctgcgactcaa...	1040...	gctattttgtag	ggctgctg
D.Per	acacgatg	gtaagtagaaga...3580...	--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgagagga...	1331...	ctccattcgag	gcctcctg
D.Pse	acacgatg	gtaagtagaaga...3546...	--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgagagga...	1365...	ctccattcgag	gcctcctg
D.Wil	ccacgatg	gtgagttgagaa...3978...	--gttagttgcagtcataactc	AATAAaCACAAATG	caaattgcttcagctagcat...	933...	ttgtttctacag	gattgctt
D.Yak	ccacgatg	gtgagtacagcc...3640...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1271...	ttctaccgcag	gtctgctg
	*****	** ***	* ** ***	*****	*****	*	**	* **

id=16686 gene=FBgn0260235 name=CG42509 segment=chr3L.9252055.9259414.1 type=I5

Figure 20: CS=11.7



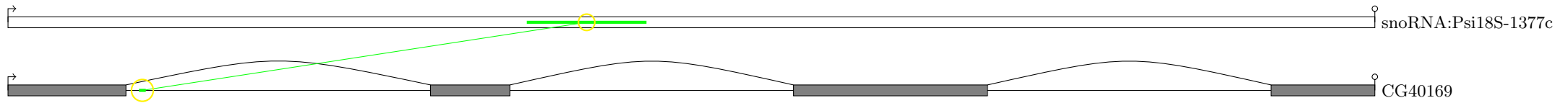
D.Mel	ttctacca	cCGTTctTGTGTTATTcgctaga-tcttttcatggcc...	89...	attgctacagtt	gaatatcc
D.Sim	ttctagca	cCGTTctTGTGTTATTcgctaga-ccatctcatggcc...	89...	attgccacagtt	gaaaatcc
D.Sec	ttctagca	cCGTTctTGTGTTATTcgctaga-ccttttcatggcc...	89...	attgccacagtt	gaaaatcc
D.Ana	atacacca	cCGTTctTGTGTTATTcactgga-tgttattgtcaaa...	93...	attgcgacatt	gcactttt
D.Gri	ttttaata	cCGTTctTGTGTTATTtgctgaatttagttatcat...	122...	aaagtttcagta	gtacagat
D.Per	tatatcog	cCGTTctTGTGTTATTcactggactcaccttatagt-	97...	tttgctacagag	taatccca
D.Pse	tatatcog	cCGTTctTGTGTTATTcactggactcaccttatagt-	97...	tttgctacagag	taatccca
D.Wil	attcagta	tCGTTctTGTGTTATTtgccga-atctttcatctag...	184...	actgactgtgtt	gaatcctt
D.Yak	ttttacta	cCGTTctTGTGTTATTcgctgga-tgttttcatggtc...	90...	cttgctacagtt	aaaaaact
		***** * * * * *			*

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	ccacgatg	gtgagtacagcc...3653...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1258...	tactaccgcag	gtctgctg
D.Sim	ccacgatg	gtgagtacagcc...3649...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1262...	tactaccgcag	gtctgctg
D.Sec	ccacgatg	gtgagtacagcc...3648...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1263...	tactaccgcag	gtctgctg
D.Ana	ccacgatg	gtgagtacaacc...3877...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1034...	actattccgcag	gtctgctg
D.Gri	ccacgatg	gtgagtacaaa...3871...	..aagagagcgacag--ataactc	AATAAgCACAAATG	caaattgcgctgcgactcaa...	1040...	gctattttgtag	ggctgctg
D.Per	acacgatg	gtaagtagaaga...3580...	--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgagagga...	1331...	ctcattcgag	gcctcctg
D.Pse	acacgatg	gtaagtagaaga...3546...	--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgagagga...	1365...	ctcattcgag	gcctcctg
D.Wil	ccacgatg	gtgagttgagaa...3978...	--gttagttgcagctataactc	AATAAaCACAAATG	caaattgcttcagctagcat...	933...	ttgtttctacag	gattgctt
D.Yak	ccacgatg	gtgagtacagcc...3640...	--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...	1271...	ttctaccgcag	gtctgctg
	*****	** ***	* ** *** *****	*****	* *		** * **	

id=124597 gene=FBgn0028431 name=Glu-RIB segment=chr3L.9252055.9259414.1 type=IN

Figure 21: CS=11.7



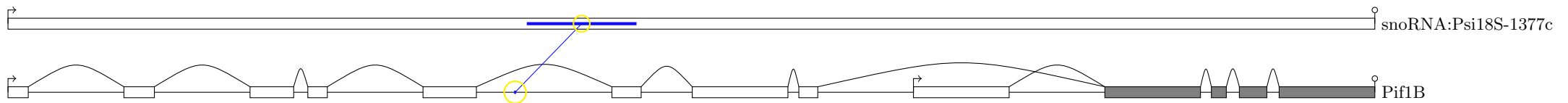
D.Mel	ttcta-cca	ccgttctt	gtg	tattc	gc	tagat	ct-ttt	cat--gg	cctagc	gagc	GTCA	aaCAGA	ACG	---	caaat	gaag	caac	ga--at	ca-----	...48..	attg	ctac	agtt	ga	aatcc						
D.Sim	ttcta-gca	ccgttctt	gtg	tattc	gc	tagacca	-ttt	cat--gg	cctagc	gagc	GTCA	aaCAGA	ACGC	CATA	---	ctga	agca	acga--at	caactc	cc-----	...44..	attg	ccac	agtt	ga	aatcc					
D.Sec	ttcta-gca	ccgttctt	gtg	tattc	gc	tagacct	-ttt	cat--gg	cctagc	gagc	GTCA	aaCAGA	ACGC	CATA	---	ctga	agca	acga--at	caactc	cc-----	...44..	attg	ccac	agtt	ga	aatcc					
D.Ere	ttctg-cta	ccgttctt	gtg	tattc	gc	tggat	gt-tt	cat--gg	tctagc	gagc	GTCA	aaCAGA	ACGC	CATA	---	ctga	agca	acga--at	caactc	cc-----	...45..	ctt	gctac	agct	ga	aaaact					
D.Ana	ataca-cca	ccgttctt	gtg	tattc	act	ggat	gt-tatt	gtcaa	atcc	agt	TTGTCA	aaCAGA	ACG	---	aa	gat	caa	gca--act	aatc-----	...50..	att	gc	gac	att	gc	actttt					
D.Gri	tttta-ata	ccgttctt	gtg	tatt	gct	gaatt	tagtt	at--catt	cag	tg	TTGTCA	aaCAGA	ACG	---	ca	a	ca	a--act	cca	agcc	ag--	...80..	aa	g	ttt	cag	ta	acag			
D.Moj	ttaca-tta	ccgttctt	gtg	tattc	gc	gaatt	-g-tact	ccc	att	cag	TTGTCA	aaCAGA	ACG	---	ca	a	g	a--at	tc	ca	ag	cc	ag-	...53..	ct	g	cc	ac	attc		
D.Per	-tatatccg	ccgttctt	gtg	tattc	act	ggac	-t-cac	ctt	atag	tc	TTGTCA	aaCAGA	ACG	TA	---	cag	taa	act	caa	agc-a--	acta-----	...53..	ttt	g	ct	ac	ag	ag			
D.Pse	-tatatccg	ccgttctt	gtg	tattc	act	ggac	-t-cac	ctt	atag	tc	TTGTCA	aaCAGA	ACG	TA	---	cag	taa	act	caa	agc-a--	acta-----	...53..	ttt	g	ct	ac	ag	ag			
D.Vir	aaacg-cta	ccgttctt	gtg	tattc	gc	gaat	ct-g	ta	atc	tc	TTGTCA	aaCAGA	ACG	---	ca	a	g	g	a--act	cc	ag	cc	ag-	...52..	ct	g	cc	ac	att		
D.Wil	attca-gta	tcgttctt	gtg	tatt	g	ccg	aaat	-tt	cat	ctag	tt	CGGTGA	aaCAGA	ACG	---	ca	a	a	ag	catt	act	cca	-----	...141..	act	g	act	g	tt		
D.Yak	tttta-cta	ccgttctt	gtg	tattc	gc	tggat	gt-ttt	cat--gg	tctagc	gagc	GTCA	aaCAGA	ACGC	CATA	ct	GACGCA	---	ac	g	a--at	ca	tc	ca	aat	ggt	...37..	ctt	g	ct	ac	agtt
		*****		*		*		*		**	*****				*		*						*								

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	attggcc	gtaagtgc	gtctct	TGTT	TTGTTGAC	aa	ctc	ctt	act	ggcc	gaca--	...1260..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Sim	attggcc	gtaagtgc	gtctct	TATG	TTTTGTTGAC	aa	ctc	ctt	act	ggcc	gaca--	...1238..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Sec	attggcc	gtaagtgc	gtctct	TATG	TTTTGTTGAC	aa	ctc	ctt	act	ggcc	gaca--	...1238..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Ere	ataggcc	gtaagtgc	gtctct	TATG	TTTTGTTGAC	aa	ctc	ctt	act	ggcc	gata--	...1170..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Ana	tcgggcc	ataagtgc	gtctct	TGTT	TTGTTGACAA	ct	c	ctt	act	ggcccc	acaca...	...928..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Gri	attgctt	ataagtgc	gtctct	TGTT	TTGTTGACAA	ct	c	ctt	act	ggac	gacaag...	...1705..	ttc	g	ttt	g	cag	tag	tt	aaa
D.Moj	attgctt	ataagtgc	gtctct	TGTT	TTGTTGACAA	ct	c	ctt	ct	ggt	cactga...	...1377..	cg	ttt	g	g	cag	tag	tt	aaa
D.Per	ggacgacc	ataagtgc	gtctct	TATG	TTTTGTTGACAA	ct	c	ctt	act	agcc	gacaag...	...1884..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Pse	ggacgacc	ataagtgc	gtctct	TATG	TTTTGTTGACAA	ct	c	ctt	act	agcc	gacaag...	...1399..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Vir	attgctt	ataagtgc	gtctct	TGTT	TTGTTGACAA	ct	c	ctt	act	ggt	acacaaa...	...1355..	tc	ttt	g	g	cag	tag	tt	aaa
D.Wil	attggacc	ataagtgc	gtctct	TGTT	TTGTTGACAA	ct	c	ctt	act	ggt	acacaca...	...1198..	ccc	att	ttt	g	cag	tag	tt	aaa
D.Yak	attggcc	gtaag	TGCGTC	TATG	TTTTGTTGAC	aa	ctc	ctt	act	ggcc	gaca--	...1188..	ccc	att	ttt	g	cag	tag	tt	aaa
		*		*****	*****		**		**				*	***	***		*****			

id=67325 gene=FBgn0259995 name=CG40169 segment=chr2L.20236129.20237448.1 type=IN

Figure 22: CS=16.8



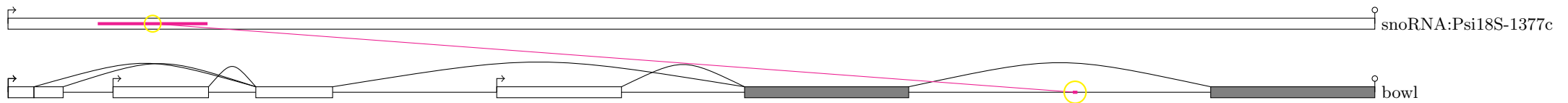
D.Mel	ttcta-cca	ccgttctt	gtgttatt	cgctagat	-ct-ttt	catggc	ctagcgagc	GTCAAACAGAAC	g-----	caactgaag	caacgaatc	...49...	attgctacagtt	gaatatcc
D.Sim	ttcta-gca	ccgttctt	gtgttatt	cgctagac	-ca-ttt	catggc	ctagcgagc	GTCAAACAGAAC	g-----	catactgaag	caacgaatc	...49...	attgccacagtt	gaaatcc
D.Sec	ttcta-gca	ccgttctt	gtgttatt	cgctagac	-ct-ttt	catggc	ctagcgagc	GTCAAACAGAAC	g-----	catactgaag	caacgaatc	...49...	attgccacagtt	gaaatcc
D.Ere	ttctg-cta	ccgttctt	gtgttatt	cgctggat	-gt-ttc	catggc	ctagcgagc	GTCAAACAGAAC	g-----	catactgaag	caacgaatc	...50...	cttgctacagct	gaaaaact
D.Ana	ataca-cca	ccgttctt	gtgttatt	cactggat	gttatt	gtcaaat	ccagtgat	TGTCAAACAGAAC	g-----	aagatcaag	caacgaatc	...51...	attgacagatt	gcactttt
D.Gri	tttta-ata	ccgttctt	gtgttatt	gtggaat	-ttagt	ttatcatt	cagtgat	TGTCAAACAGAAC	gcacaaca	aaactcca	agcca-----	...81...	aaagttcagta	gtacagat
D.Moj	ttaca-tta	ccgttctt	gtgttatt	cgctgaat	-ttgact	cccatt	cagcgat	TGTCAAACAGAAC	gcacagaaa	attcca	agtc-----	...54...	ctggccacattc	tatttaat
D.Per	-tatatccg	ccgttctt	gtgttatt	cactggac	-tcacct	tatagt	cctgtga	TGTCAAACAGAAC	gtacagta	aaactca	agcaa-----	...56...	tttgctacagag	taatccca
D.Pse	-tatatccg	ccgttctt	gtgttatt	cactggac	-tcacct	tatagt	cctgtga	TGTCAAACAGAAC	gtacagta	aaactca	agcaa-----	...56...	tttgctacagag	taatccca
D.Yak	tttta-cta	ccgttctt	gtgttatt	cgctggat	-gt-ttt	catggc	ctagtgagc	GTCAAACAGAAC	g-----	catactgac	gcaacgaatc	...50...	cttgctacagtt	aaaaaact
	*	***** ** *												

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gcgataag	gtag-gcaa	acgg...157...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccagc	acggaaat-	...904...	atctcaatctag	atggagag
D.Sim	gcgataag	gtag-gcaa	acgg...157...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccagc	acggaaat-	...891...	tctccgatctag	atggagag
D.Sec	gcgataag	gtag-gcaa	acgg...166...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccagc	acggaaat-	...887...	tctccgatctag	atggagag
D.Ere	gcgataag	gtag-gcaa	acgg...164...	--gtgtg	ctggagt	ctctttta	GTTTTG	-TTTGGC	atct-----	aagccagc	acggaaat-	...974...	gtttcgatctag	atggagag
D.Ana	acgataag	gtaagacc	ccgat...173...	tcgggtg	ctgctggc	-tca	GTTTTG	-TTTGGC	tct-----	aagtcagt	gcgaaatt-	...946...	aactgcttcag	atggagag
D.Gri	agagagag	agagaaga	agag...208...	tcgtgcc	-taaca	atggt-tta	GTTTTG	-TTTGGC	atct-----	tagccagt	gcgaaatt-	...2342...	gactcccctcag	atggatgg
D.Moj	atgataag	gtaaacag	aaaa...648...	-cgtgc	cttaaca	atggt-tta	GTTTTG	-TTTGGC	tct-----	tatagagt	gcgaaatt-	...1689...	cattatccag	atggatgg
D.Per	gcgataag	gtagtgca	agcc...188...	-cgtgtg	-gaaca	atggcgcca	GTTTTG	-TTTGGC	atctgccc	agagagc	gagcgcg	----	...1169...	tcgccccaccag
D.Pse	gcgataag	gtagtgca	agcc...188...	-cgtgtg	-gaaca	atggcgcca	GTTTTG	-TTTGGC	atctgccc	agagagc	gagcgcg	----	...1201...	tcgccccaccag
D.Yak	gcgataag	gtag-gcaa	acgg...156...	--gtgtg	ctggagt	ctcattta	GTTTTG	-TTTGGC	atct-----	aagccagc	acggaaat-	...1031...	gtttcgatctag	atggagag
	**	*		**	*	*	*****	*****	**	*	**	***	**	*****

id=109983 gene=FBgn0046874 name=Pif1B segment=chr3R.4610315.4611451.-1 type=I5 VIEW

Figure 23: CS=14



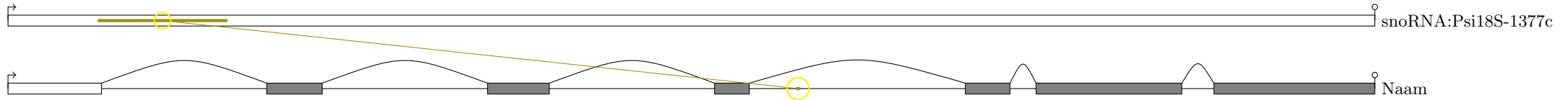
D.Mel	ttctac-ca	CGTTCCTGTGTT	attcgctagatcttttcatg-----...92...attgctacagtt	gaatatcc
D.Sim	ttctag-ca	CGTTCCTGTGTT	attcgctagaccatttcatg-----...92...attgccacagtt	gaaaatcc
D.Sec	ttctag-ca	CGTTCCTGTGTT	attcgctagacccttttcatg-----...92...attgccacagtt	gaaaatcc
D.Ere	ttctgc-ta	CGTTCCTGTGTT	attcgctggatggttccatg-----...93...cttgctacagct	gaaaaact
D.Ana	atacac-ca	CGTTCCTGTGTT	ATTCA ctggatggtattgtcaaatc...91...attgcgacattt	gcactttt
D.Moj	ttacat-ta	CGTTCCTGTGTT	attcgctgaatttgactcc-----...98...ctggccacattc	tatttaat
D.Per	-tatatccg	CGTTCCTGTGTT	attcactggactcaccttat-----...100...tttgctacagag	taatccca
D.Pse	-tatatccg	CGTTCCTGTGTT	attcactggactcaccttat-----...100...tttgctacagag	taatccca
D.Vir	aaacgc-ta	CGTTCCTGTGTT	attcgctgaatctgttaatc-----...98...ctcgccacattt	attcttaa
D.Yak	ttttac-ta	CGTTCCTGTGTT	attcgctggatggttttcatg-----...93...cttgctacagtt	aaaaaact
		***** ** *		* ** ***

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gatcacag	gtgagtcgaggt...864...aactgtggct-gctgctatcc-----	AACA g CAAG tg GACG ccattgccaagatggccgcc...381...gtattgcccag	gatatattc
D.Sim	gatcacag	gtgagtcgaggt...860...aactgtggct-gctggtatcc-----	AACA a CAAG tg GACG ccattgccaagatggccgcc...362...gtattgcccag	gatatattc
D.Sec	gatcacag	gtgagtcgaggt...848...aactgtggct-gctgctatcc-----	AACA a CAAG tg GACG ccattgccaagatggccgcc...364...gtattgcccag	gatatattc
D.Ere	gatcacag	gtgagtcgaggt...808...aactgtggct-gctgctatcc-----	AACA a CAAG tg GACG ccattgccaagatggccgcc...379...gtacttgcccag	gatatattc
D.Ana	gatcacag	gtgagtcaaatg...917...ggc--ctcttggccgggctgct TGGGc	AACA a CAAG tg GACG ccattgccaagatggccgcc...461...atcttctacag	gtatatcc
D.Moj	gatcacag	gtgagtggcgc...1518...-gctgctgtt-gctttgttcc-----	AACA a CAAG tg GACG ccatttcaagatggctgccc...170...gtccccgtcag	gtacatac
D.Per	gatcacag	gtgagcgttcta...904...gggtactgag-gcttatgtcc-----	AACA a CAAG tg GACG ccattgccaagatggccgccc...170...tctttcctgaag	gtacatcc
D.Pse	gatcacag	gtgagcgttcta...892...gggactgag-gcttatgtcc-----	AACA a CAAG tg GACG ccattgccaagatggccgccc...170...tctttcctgaag	gtacatcc
D.Vir	gaccacag	gtgagtcaagt...945...-tggttgctggttgcctggtcc-----	AACA a CAAG tg GACG ccatttcaagatggctgccc...173...tccttctgtcag	gtatatac
D.Yak	gatcacag	gtgagtcgaggt...850...tgcggctgct-gctgctatcc-----	AACA a CAAG tg GACG ccattgccaagatggccgccc...398...gtattgcccag	gatatattc
		** *****	**** ***** ** ***** **	** *** ** *

id=126114 gene=FBgn0004893 name=bowl segment=chr2L.3780580-3781903.1 type=IN

Figure 24: CS=14



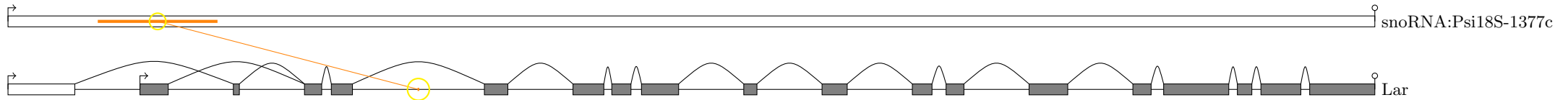
D. Mel	ttctacca	cCGTTCTTGgTTAT	tcgctagatctttcatggc	----...90...attgctacagtt	gaatatcc
D. Sim	ttctagca	cCGTTCTTGgTTAT	tcgctagaccatttcatggc	----...90...attgccacagtt	gaaaatcc
D. Sec	ttctagca	cCGTTCTTGgTTAT	tcgctagacctttcatggc	----...90...attgccacagtt	gaaaatcc
D. Ere	ttctgcta	cCGTTCTTGgTTAT	tcgctggatgtttccatggt	----...91...cttgctacagct	gaaaaact
D. Ana	atacacca	cCGTTCTTGgTTAT	cactggatgtt---attgtcaa	...93...attgcgacattt	gcactttt
D. Gri	ttttaata	cCGTTCTTGgTTAT	ttgctgaatttagt-ttatca	---...123...aaagtttcagta	gtacagat
D. Moj	ttaCATIa	cCGTTCTTGgTTAT	tcgctgaatttg-tactccca	---...96...ctggccacattc	tatttaat
D. Vir	aaacgcta	cCGTTCTTGgTTAT	tcgctgaatctgttaatctc	----...96...ctgcacacattt	attcttaa
D. Yak	ttttacta	cCGTTCTTGgTTAT	tcgctggatgttttcatggt	----...91...cttgctacagtt	aaaaaact
		*	*****	** *	* **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	gacacgag	gtgagcttcgga...102...-aggacataaaaaagtaaaagc	GTAACAAGaAATG	aaaatgaagggcccgcccg	-----...476...cctttactgcag	atactgga
D. Sim	gacacgag	gtgagctccgga...102...-aggacataaaaaagtaaaac	GTAACAAGaAATG	aaaatgaaggccctggcccg	-----...490...ccttactgcag	atactaga
D. Sec	gacacgag	gtgggctccgga...73...-aggacgtaaaaaagtaaaagc	GTAACAAGaAATG	aaaatgaaggccctggcccg	-----...464...ccttactgcag	atactgga
D. Ere	gacacgag	gtgagctccgga...102...-aggacataaaaaagcaaac	GTAACAAGaAATG	aaaatgaaggccctgaccg	-----...469...ccttctctgcag	atactgga
D. Ana	gacacgag	gtgagctccgga...283...aagaacataaaaaataaaa	AGTAACAAGaAATG	aaaatgaaggccaggacca	-----...550...tctcttcccag	atactgga
D. Gri	gacatgag	gtgagccctaga...156...-gcgacggaaaagacataaaac	GTAACAAGaAATG	aaaatggaggcagcgaaccg	-----...721...gttctgttcag	atacttga
D. Moj	gacatgag	gtgagacctgga...172...-gcgacggaaaagacataaaac	GTAACAAGaAATG	aaaatggaggcagcgaaccg	-----...543...ctctcttgcag	atactgga
D. Vir	gacatgag	gtgagcccogaa...143...-gcgacggaaaagacataaaac	GTAACAAGaAATG	aaaatggaggcaacgaaccg	-----...592...gctctcttgcag	atactcga
D. Yak	gacacgag	gtgagctccgga...102...-aggacataaaaaagtaaaagc	GTAACAAGaAATG	aaaatgaaggcccgcccg	-----...469...ccttactgcag	atactgga
	**** *	*** *	** *** *	*** *****	*** *	*** ***** **

id=130188 gene=FBgn0051216 name=Naam segment=chr3R.15522379.15523033.1 type=IN VIEW

Figure 26: CS=10.62



D.Mel	t-TCTACca	CGGTT	TTGTGTTA	ttcgctagatcttttcatgg...	91...	attgctacagtt	gaatatcc
D.Sim	ttctagca-	CGGTT	TTGTGTTA	ttcgctagaccatttcatgg...	91...	attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CGGTT	TTGTGTTA	ttcgctagacccttttcatgg...	91...	attgccacagtt	gaaaatcc
D.Ere	t-TCTGCTa	CGGTT	TTGTGTTA	ttcgctggatgttttcatgg...	92...	cttgcctacagct	gaaaaact
D.Ana	atacacca-	CGGTT	TTGTGTTA	ttcactggatgttattgtca...	95...	attgcgacattt	gcactttt
D.Gri	ttttaata-	CGGTT	TTGTGTTA	tttgctgaatttagtttatac...	124...	aaagtttcagta	gtacagat
D.Moj	ttacatta-	CGGTT	TTGTGTTA	ttcgctgaattgtactccc...	97...	ctggccacattc	tatttaat
D.Per	-tatatcCG	CGGTT	TTGTGTTA	ttcactggactcacctata...	99...	tttgctacagag	taatccca
D.Vir	aaacgcta-	CGGTT	TTGTGTTA	ttcgctgaatctgttaatct...	97...	ctcgccacattt	attcttaa
D.Yak	t-TTTACTa	CGGTT	TTGTGTTA	ttcgctggatgttttcatgg...	92...	cttgcctacagtt	aaaaaact

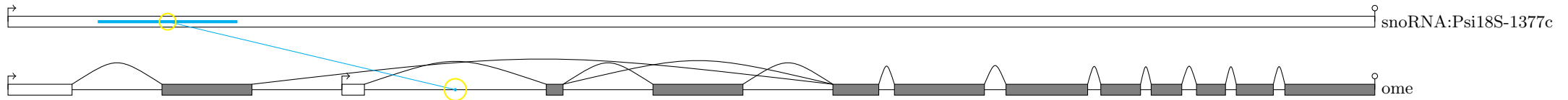
			** *			*	**

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	atatgaag	gtaagtccgtg...	4564...	agtgcg-ggaatcccattggt	TGACTt	ACAAAATGGc	GTAGAA	agcagccaacaaaagcaact...	339...	tcctcgttcgag	gcgataaa
D.Sim	ctatgaag	gtaagtccgtg...	4587...	agtgcg-ggaatcccattggt	TGACTt	ACAAAATGGc	gtagaaaagcagccaacaaa	-----	323...	tcctcgttcgag	gcgataaa
D.Sec	ctatgaag	gtaagtcccttg...	4575...	agtgcg-ggaatcccattggt	TGACTt	ACAAAATGGc	gtagaaaagcagccaacaaa	-----	335...	tcctcgttcgag	gcgataaa
D.Ere	ctatgaag	gtaagtccgtg...	4587...	agtgcg-ggaatcccattggt	TGACTt	ACAAAATGGc	GTAGAA	agc-gccaacaaaagcaactg...	316...	tcctcgttcgag	gcgataaa
D.Ana	ctatgaag	gtaagtccatg...	4653...	tgtgtg-ggaacgccattggt	TGACTt	ACAAAATGGc	gtagaaaat-gccaacaaa	-----	257...	tcctcgttcgag	gcgataaa
D.Gri	ctatgaag	gtaagtggcaac...	4593...	-gtttggtgccaccattggt	TGACTt	ACAAAATGGc	gtagaaaagc-ggcaacaaac	-----	317...	tttgcgttcgag	gcgataaa
D.Moj	atatgaag	gtgagtgcgaga...	4558...	-gtgtggtgaaagccattggt	TGACTt	ACAAAATGGc	gtagaaaac-ggcaacaaag	-----	352...	ttctgttacag	gcgataaa
D.Per	ctatgaag	gtaagtccatg...	4649...	tgtgt-gtggaaagccattggt	TGACTt	ACAAAATGGCG	tagaaaagc-gccaacaaagag	----	259...	gtttttttgcag	gcgataaa
D.Vir	ctatgaag	gtaagtggcaac...	4586...	-gtttgctgcacgccattggt	TGACTt	ACAAAATGGc	gtagaaaagc-ggcaacaaag	-----	324...	ttccgtttcag	gcgataaa
D.Yak	ctatgaag	gtaagtccgtg...	4589...	agagcg-ggaatcccattggt	TGACTt	ACAAAATGGc	GTAGAA	agc-gccaacaaaagcaactg...	314...	tcctcgttcgag	gcgataaa
	*****	** **		*	*	*****	*	*****		** **	*****

id=108542 gene=FBgn0000464 name=Lar segment=chr2L.19644636.19691017.1 type=IN

Figure 27: CS=13



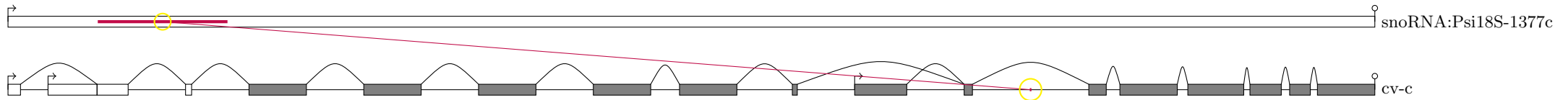
D.Mel	ttctac-ca	CGTTctTGTGtTATT	cgctaga-tcttttcatggc	---...89...	attgctacagtt	gaatatcc
D.Sim	ttctag-ca	CGTTctTGTGtTATT	cgctaga-ccatttcatggc	---...89...	attgccacagtt	gaaaatcc
D.Sec	ttctag-ca	CGTTctTGTGtTATT	cgctaga-ccttttcatggc	---...89...	attgccacagtt	gaaaatcc
D.Ere	ttctgc-ta	CGTTctTGTGtTATT	cgctgga-tgtttccatggc	---...90...	ctgctacagct	gaaaaact
D.Ana	atacac-ca	CGTTctTGTGtTATT	cactgga-tggtt---attgtcaa	...93...	attgacacattt	gcactttt
D.Gri	tthta-ta	CGTTctTGTGtTATT	ctgaatttagtttatcattc	---...120...	aaagttagta	gtacagat
D.Moj	ttacat-ta	CGTTctTGTGtTATT	ctgaatttagtttatcattc	...91...	ctggccacattc	tatttaat
D.Per	-tatatccg	CGTTctTGTGtTATT	cactggactcaccttatagt	---...97...	ttgctacagag	taatcca
D.Pse	-tatatccg	CGTTctTGTGtTATT	cactggactcaccttatagt	---...97...	ttgctacagag	taatcca
D.Yak	tthta-ta	CGTTctTGTGtTATT	cgctgga-tgttttcatggc	---...90...	ctgctacagtt	aaaaaact
	*	*****	** *		* **	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gagtaagc	gtaagtgcggtt...3309...	tctcgttttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ccgtcg...1604...	ttttgatgcag	ctgcaaag
D.Sim	gagtaagc	gtaagtgcggtt...3299...	tctcgttttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ccgtcg...1614...	ttttgatgcag	ctgcaaag
D.Sec	gagtaagc	gtaagtgcggtt...3339...	tctcgttttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ccgtcg...1574...	ttttgatgtag	ctgcaaag
D.Ere	gagtaaac	gtaagtgcggtt...3372...	tcttcttttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ccgtcg...1541...	ctttgatgcag	ctgcatgt
D.Ana	agtttagc	gtaagtggcgtt...3286...	tcttgtttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaatagtc	ccggcg...1627...	cccaaatgcag	ctataaag
D.Gri	gccaaata	gtacgcgacttt...2804...	tctgtttcgc--acttgaca----	CAAATGCACAAATG	aaaaatcaaatagtc	ccggcg...2107...	tttttaatatag	ttgtcct
D.Moj	gaggctgt	gtgagtgcatt...2784...	tgcaatttatggttgccta	AGTGAA	AATGCACAAATG	aaaaatcaaatattc	agaac...2122...	ttttcaatgcag
D.Per	gagtatcc	atctgtaagttc...3110...	tctgtttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ctgcca...1803...	gtccaatacag	ctgcgagc
D.Pse	gagtatcc	atctgtaagttc...3106...	tctgtttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ctgcca...1807...	gtccaatacag	ctgcgagc
D.Yak	gaggaagc	gtaagtgcggtt...3278...	tctgttttcgc--acttgaca----	AATGCACAAATG	aaaaatcaaacagtc	ccgtcg...1635...	ttttgatgcag	ctgcaaag
		* * *	* ** *	*	*****	*****	** **	** **

id=19759 gene=FBgn0259175 name=ome segment=chr3L.14699979.14729142.1 type=IN

Figure 28: CS=13



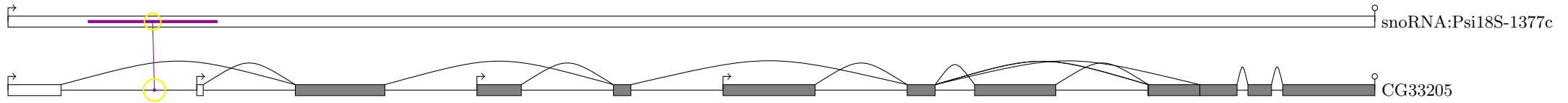
D.Mel	ttctacca-	CGTTCTTGT	TTAT	-----	tcgctaga-tcttttcatggc-...90..	attgctacagtt	gaatatcc
D.Sec	ttctagca-	CGTTCTTGT	TTAT	-----	tcgctaga-ccttttcatggc-...90..	attgccacagtt	gaaaatcc
D.Ere	ttctgcta-	CGTTCTTGT	TTAT	-----	tcgctgga-tgtttccatggt-...91..	cttgctacagct	gaaaaact
D.Ana	atacacca-	CGTTCTTGT	TTAT	-----	tcactgga-tgttattgtcaa-...94..	attgcgacattt	gcactttt
D.Gri	ttttaata-	CGTTCTTGT	TTATTG	ctGAATTA	gtttatcattcag-...111..	aaagtttcagta	gtacagat
D.Moj	ttacatta-	CGTTCTTGT	TTAT	-----	tcgctgaa-tttg-tactcca-...96..	ctggccacattc	tatttaat
D.Per	-tatatcCG	CGTTCTTGT	TTAT	-----	tcactggactcaccttatag-...98..	tttgctacagag	taatccca
D.Pse	-tatatcCG	CGTTCTTGT	TTAT	-----	tcactggactcaccttatag-...98..	tttgctacagag	taatccca
D.Vir	aaacgcta-	CGTTCTTGT	TTAT	-----	tcgctgaa-tctgttaatctc-...96..	ctcgccacattt	attcttaa
D.Yak	ttttacta-	CGTTCTTGT	TTAT	-----	tcgctgga-tgttttcatggt-...91..	cttgctacagtt	aaaaaact
		*****			** *	*	* **

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	gtacgaag	gtaagtgcgaac...1838...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	cgcatgcgaagattgctgct--...1774...	ttgcttttgag	atcatcag	
D.Sec	gtacgaag	gtaagtgcgaac...1759...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	cgcatgcgcagattgctgct--...1762...	ttgcttttgag	atcatcag	
D.Ere	gtacgaag	gtaagtgcgaac...1656...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	cgcatgcgcagattgctgct--...1646...	ttgcttttgag	atcatcag	
D.Ana	gtacgaag	gtaagtgcgaac...1588...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	cacatgcgcagattgctgctc--...1705...	ttcactttgag	atcaccag	
D.Gri	gtacgaag	gtaagtgcgaac...1608...	atgataaatgcg	tattttaa	TGAGTTTCGAG	GTAACAAG	gcAGCGG	cgcatgcgcagaagttgcct--...1941...	tgccattgag	atcatcag
D.Moj	gtacgaag	gtaagtgcgaac...1618...	-----	cgtattttaatgagttttgt	GTAACAAG	gcAGCGG	cgcatgcgcgaagatgcct--...2028...	ccatattgag	atcatcag	
D.Per	gtacgaag	gtaagtgcgaac...1537...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	CGGcatgcgcagattgctcctca...1773...	ttgactttgag	atcatcag	
D.Pse	gtacgaag	gtaagtgcgaac...1522...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	CGGcatgcgcagattgctcctca...1743...	ttgactttgag	atcatcag	
D.Vir	gtacgaag	gtaagtgcgaac...1520...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	cgcatgcgcagagagcgcct--...1853...	tgccattacag	atcatcag	
D.Yak	gtacgaag	gtaagtgcgaac...1766...	-----	cgtattttaatgagtttcgt	GTAACAAG	gcAGCGG	cgcatgcgcagattgctgct--...1762...	ttgcttttgag	atcatcag	
	*****	*****		*****	*	*****	*	** **	**** **	

id=30564 gene=FBgn0086901 name=cv-c segment=chr3R.10221749.10225440.-1 type=IN VIEW

Figure 29: CS=13



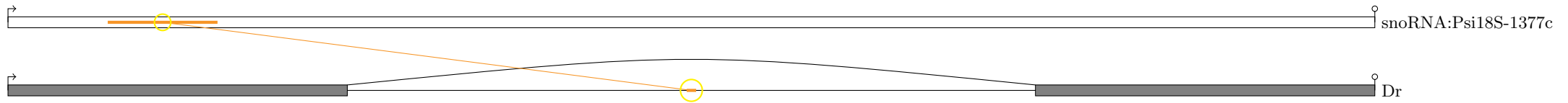
D. Mel	ttctacca-	CCGTtCTTGTGTTATTTCGcTAGA	--tcttttcatggcctagcgag---	..82..	attgctacagtt	gaatatcc
D. Sim	ttctagca-	CCGTtCTTGTGTTATTTCGcTAGA	--ccatttcatggcctagcgag---	..82..	attgccacagtt	gaaaatcc
D. Sec	ttctagca-	CCGTtCTTGTGTTATTTCGcTAGA	--ccttttcatggcctagcgag---	..82..	attgccacagtt	gaaaatcc
D. Ere	ttctgcta-	CCGTtCTTGTGTTATTTCGcTGGAA	--tgtttccatggctagcgag---	..83..	cttgctacagct	gaaaaact
D. Ana	atacacca-	CCGTtCTTGTGTTATTTCcTGGAA	tgttcaaatccagtgattgt...	..81..	attgcgacattt	gcactttt
D. Moj	ttacatta-	CCGTtCTTGTGTTATTTCGcTGGAA	tttg-tactcccattcagcga---	..88..	ctggccacattc	tatttaat
D. Per	-tatatccg	CCGTtCTTGTGTTATTTCcTGGAA	ctca-ccttatagtcctgtga---	..90..	tttgctacagag	taatccca
D. Pse	-tatatccg	CCGTtCTTGTGTTATTTCcTGGAA	ctca-ccttatagtcctgtga---	..90..	tttgctacagag	taatccca
D. Vir	aaacgcta-	CCGTtCTTGTGTTATTTCGcTGGAA	tctgttaatctcgttcagcg---	..88..	ctcgccacattt	attcttaa
D. Yak	ttttacta-	CCGTtCTTGTGTTATTTCGcTGGAA	--tgtttccatggctagtgag---	..83..	cttgctacagtt	aaaaaact
		***** ** *			** ** **	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	tacaaacg	gtaagcaccac...	2573...	tctt----	cctcccagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttttaattcaaaata...	198...	ggtgctcaaatt	agtttaag				
D. Sim	tacaaacg	gtaagcaccac...	2512...	tctt----	cctcccagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaattcaaaatag...	199...	ggtgctcaaatt	agtttaag				
D. Sec	tacaaacg	gtaagcaccac...	2500...	tctt----	cctcccagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaattcaaaatag...	199...	ggtgctcaaatt	agtttaag				
D. Ere	tacaaacg	gtaagcaccac...	2535...	tctt----	cctcccagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaattcaaaatag...	185...	ggtgctcaaatt	agtttaag				
D. Ana	aacagacg	gtaagcaccac...	2373...	tcttttcctcacacagttgc	TAATTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaaaatcgtaga...	241...	tctgctcaaatt	agtctaag				
D. Moj	gacagacg	gtgagtacacac...	2763...	attt----	gctcaaagttgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttgctcaagagtgaaa...	241...	aaccacaaatt	agttaag				
D. Per	aacagacg	gtaagcaccac...	2117...	tttt----	cctcacagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaaaatagagcaa...	305...	tgctctcaaatt	agtttaag				
D. Pse	aacagacg	gtaagcaccac...	2192...	tttt----	cctcacagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaaaatagagcaa...	304...	tgctctcaaatt	agtttaag				
D. Vir	aacagacg	gtaagtgcacac...	2035...	attt----	gctcaaagttgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaattgtacttgagagcgagt...	278...	gctgctcaaatt	agtttaag				
D. Yak	tacaaacg	gtaagcaccac...	2564...	tctt----	caaccagctgctaattTTTAttTGAGgTGACacACAAGGCCGG	gaatttcaattcaaaatag...	200...	ggtgctcaaatt	agtttaag				
		*** **		** **	***		**	*	*****		*	*****	*** **

id=132869 gene=FBgn0053205 name=CG33205 segment=chr3L.9809458.9812318.1 type=I5

Figure 30: CS=13



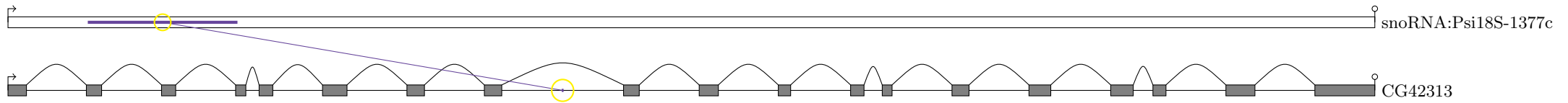
D. Mel	ttctacca	ccGTTCTTGTGTTA	Attcgttagatcttttcatgg...91...attgctacagtt	gaatatcc
D. Sim	ttctagca	ccGTTCTTGTGTTA	Attcgttagaccatttcatgg...91...attgccacagtt	gaaaatcc
D. Sec	ttctagca	ccGTTCTTGTGTTA	Attcgttagaccttttcatgg...91...attgccacagtt	gaaaatcc
D. Ere	ttctgcta	ccGTTCTTGTGTTA	Attcgtggatggttccatgg...92...cttgctacagct	gaaaaact
D. Ana	atacacca	ccGTTCTTGTGTTA	Attcactggatggttattgtca...95...attgcgacattt	gcactttt
D. Gri	ttttaata	ccGTTCTTGTGTTA	Attgctgaatttagttatc...124...aaagtttcagta	gtacagat
D. Moj	ttacatta	ccGTTCTTGTGTTA	Attcgtgaattgtactccc...97...ctggccacattc	tatttaat
D. Per	tatatccg	ccGTTCTTGTGTTA	Attcactggactcaccttata...99...tttgctacagag	taatccca
D. Pse	tatatccg	ccGTTCTTGTGTTA	Attcactggactcaccttata...99...tttgctacagag	taatccca
D. Vir	aaacgcta	ccGTTCTTGTGTTA	Attcgtgaatctgttaatct...97...ctcgccacattt	attcttaa
D. Wil	attcagta	tcGTTCTTGTGTTA	Attgcccgaatctttcatct...186...actgactgtgtt	gaatcctt
D. Yak	ttttacta	ccGTTCTTGTGTTA	Attcgtggatggttcatgg...92...cttgctacagtt	aaaaaact
		*****	* * *	

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	cggtggag	gtaagtgtcggtt...2958...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...1952...	tctatntccag	atgccaac
D. Sim	cggtggag	gtaagtgtcggtt...2984...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...1926...	tctatntccag	atgccaac
D. Sec	cggtggag	gtaagtgtcggtt...2976...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...1934...	tctatntccag	atgccaac
D. Ere	cggtggag	gtaagtgtcggtt...3017...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...1893...	tctatntccag	atgccaac
D. Ana	agcaggag	gtaagtgtcgct...2878...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2032...	cttctntttag	atgccaac
D. Gri	tggtggag	gtaagtgtcgac...2616...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttcaataaatg...2294...	tgtatcttgcag	atgccaat
D. Moj	tggtggag	gtaagtgtcaat...2623...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2287...	tctctctttag	atgccaat
D. Per	cggtggag	gtaagtgtgcc...2718...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2192...	ctccacttccag	atgccaat
D. Pse	cggtggag	gtaagtgtcgcc...2755...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2155...	ctccacttccag	atgccaat
D. Vir	tggtggag	gtgagtgtcaac...2663...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2247...	ttctctttag	atgccaat
D. Wil	cggtggag	gtaagtgtcgat...2895...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2015...	tttctttag	atgccaat
D. Yak	cggtggag	gtaagtgtcgct...2711...	gaaacccattccaacaattTAGCgACAAatGAGC	aattaattttgaaataaatg...2199...	tctatntccag	atgccaac
		* ****	*****	*****	** **	*****

id=17616 gene=FBgn0000492 name=Dr segment=chr3R.25383568.25389874.1 type=IN VIEW

Figure 31: CS=12



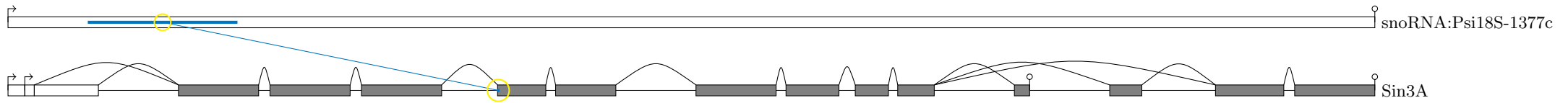
D.Mel	ttctacca-	CGGTTCTTGTGTTATT	cgctaga-tcttttcatggcc---...89...attgctacagtt	gaatatcc
D.Sim	ttctagca-	CGGTTCTTGTGTTATT	cgctaga-ccatttcatggcc---...89...attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CGGTTCTTGTGTTATT	cgctaga-ccttttcatggcc---...89...attgccacagtt	gaaaatcc
D.Ere	ttctgcta-	CGGTTCTTGTGTTATT	cgctgga-tgtttccatggtc---...90...cttgctacagct	gaaaaact
D.Ana	atacacca-	CGGTTCTTGTGTTATT	cactgga-tgtt---attgtcaaa...93...attgcgacattt	gcactttt
D.Gri	ttttaata-	CGGTTCTTGTGTTATT	tgctgaa---tttagttatcat...122...aaagttcagta	gtacagat
D.Moj	ttacatta-	CGGTTCTTGTGTTATT	cgctgaa---tttgactcccat...95...ctggccacattc	tatttaat
D.Per	-tatatccG	CGGTTCTTGTGTTATT	cactggactcaccttatagt---...97...tttgctacagag	taatccca
D.Pse	-tatatccG	CGGTTCTTGTGTTATT	cactggactcaccttatagt---...97...tttgctacagag	taatccca
D.Vir	aaacgcta-	CGGTTCTTGTGTTATT	cgctgaa---tctgttaatctcg...95...ctgccacattt	attcctaa
D.Wil	atctagat-	CGGTTCTTGTGTTATT	tgccgaaatctttc---atctag...184...actgactgtgtt	gaatcctt
D.Yak	ttttacta-	CGGTTCTTGTGTTATT	cgctgga-tgttttcatggtc---...90...cttgctacagtt	aaaaaact
		*****	* *	*

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	tgtcgttt	gtaagtattaca...3907...--tccgtggt-ggaacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...1001...tcctctttgcag	atcctccc		
D.Sim	tgtcgttt	gtaagtattaca...3628...--tccgtggt-ggaacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...1280...tcctctttgcag	atcctccc		
D.Sec	tgtcgttt	gtaagtattaca...3871...--tccgtggt-ggaacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...1037...tcctctttgcag	atcctccc		
D.Ere	tgtcgttt	gtaagtattaca...3956...--tccgtggt-ggaacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...952...tcccctttgcag	atcctccc		
D.Ana	tgtcgttt	gtaagtattaca...3863...aggtggcagc---aacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...1045...tcctctttcag	atcctccc		
D.Gri	tgtcgttt	gtaagtattaca...3691...-ttggtagc--taacggtaaat	GATAA	CACAAA	AATGG	-cccgcaacatgtgtgcggaa...996...aattctttgcag	atccccca		
D.Moj	tgtcgttt	gtaagtattaca...3573...-gctggcagc--taacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...1335...aattgtttgcag	atcctcca		
D.Per	tgtcgttt	gtaagtattaca...3611...--aacgcagccgtaac-gtaaat	GATAA	CACAAA	AATGGC	-cggcaacatgtgtgcggaaa...1296...gtctctttgcag	atccacct		
D.Pse	tgtcgttt	gtaagtattaca...3466...--cggcagccgtaacggtaaat	GATAA	CACAAA	AATGGC	-cggcaacatgtgtgcggaaa...1441...gtctctttgcag	atccacct		
D.Vir	tgtcgttt	gtaagtattaca...3702...-ggtggcagc--taacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...1206...gaatcattgcag	atccccca		
D.Wil	tgtcgttt	gtaagtattaca...3510...-ctgtgtggt--aacggtaaat	GATAA	CACAGA	AATG	cccctgcaacatgtgtgcgg---...1399...tcctttttgcag	atccacct		
D.Yak	tgtcgttt	gtaagtattaca...3946...--tccgtggt-ggaacggtaaat	GATAA	CACAAA	AATGG	-cctgcaacatgtgtgcggaa...962...tcctttttgcag	atcctccc		
	*****	*****	*	*	*** *****	*****	* *****	** **	**** **

id=78240 gene=FBgn0259213 name=CG42313 segment=chr2L.14923080.14932513.-1 type=IN

Figure 32: CS=16.8



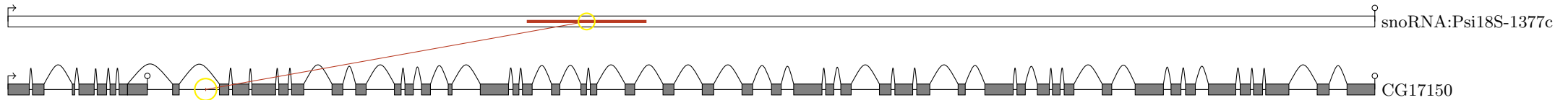
D.Mel	ttctacca-	CCGTTcTGTGtTATTC	gctagatct-tttcatggcct...88...attgctacagtt	gaatatcc
D.Sim	ttctagca-	CCGTTcTGTGtTATTC	gctagacca-tttcatggcct...88...attgccacagtt	gaaaatcc
D.Sec	ttctagca-	CCGTTcTGTGtTATTC	gctagacct-tttcatggcct...88...attgccacagtt	gaaaatcc
D.Ere	ttctgcta-	CCGTTcTGTGtTATTC	gctggatgt-ttccatggtct...89...cttgctacagct	gaaaaact
D.Ana	atacacca-	CCGTTcTGTGtTATTC	actggatgt-tattgtcaaat...92...attgcgacattt	gcactttt
D.Gri	ttttaata-	CCGTTcTGTGtTATTC	gctgaattt-agttatcatt...121...aaagtttcagta	gtacagat
D.Moj	ttacatta-	CCGTTcTGTGtTATTC	gctgaattt-gtactccatt...94...ctggccacattc	tatttaat
D.Per	-tatatccg	CCGTTcTGTGtTATTC	actggactcaccttatagtc...96...tttgctacagag	taatccca
D.Pse	-tatatccg	CCGTTcTGTGtTATTC	actggactcaccttatagtc...96...tttgctacagag	taatccca
D.Vir	aaacgcta-	CCGTTcTGTGtTATTC	gctgaatct-gttaatctcgt...94...ctcgccacattt	attcttaa
D.Wil	attcagtat	c-GTTCtTGTGtTATTC	gccgaaatc-tttcatctagt...183...actgactgtgtt	gaatcctt
D.Yak	ttttacta-	CCGTTcTGTGtTATTC	gctggatgt-tttcatggtct...89...cttgctacagtt	aaaaaact
		* ***** * *		*

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D.Mel	atttacag	gtaagaatatt...305...gcgcacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
D.Sim	atttaccg	gtaagaatatt...301...gcgcacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
D.Sec	atttaccg	gtaagaatatt...301...gcgcacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
D.Ere	atttacag	gtaagatatatt...282...gcgcacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
D.Ana	atctacag	gtgagacttgaa...256...gcgcacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
D.Gri	atctacag	gtgagttttacg...451...aacgct---ctctaac---gaaag	GAATAttCACAG	AACGGagg
D.Moj	atctacag	gtgagtgtgt...206...acaaacg---ctctaac---aaaag	GAATAttCACAG	AACGGaag
D.Per	atttacag	gtaagaaaggac...246...---cacgtgttctaac---aaaag	GAATAttCACAG	AACGGagg
D.Pse	atttacag	gtaagaaaggac...229...---cacgtgttctaac---aaaag	GAATAttCACAG	AACGGagg
D.Vir	atctacag	gtgagtgtcga...181...acaaacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
D.Wil	atatacag	gtaaaagacata...148...---cata---ttctaacccttaaag	GAATAttCACAG	AACtgagg
D.Yak	atttacag	gtaagatgtatt...301...gcgcacg---ctctaac---aaaag	GAATAttCACAG	AACGGagg
	** ** *	** *	*****	***** ** * *

id=130893 gene=FBgn0022764 name=Sin3A segment=chr2R.8469445.8469793.-1 type=IN

Figure 33: CS=15.6



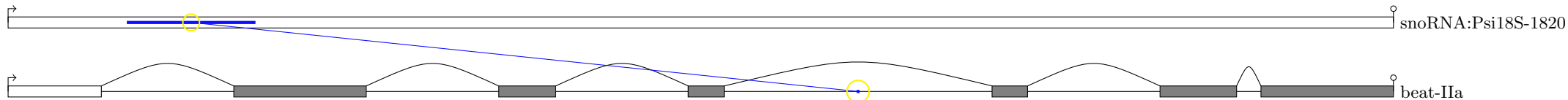
D. Mel	ttcta-cca	ccgttcttgtgttattcgcctagat-ct-tttcatggcctagcga----	GCGTCAAACAgAACGC	aaactgaagc--aacgaatcac...47...attgctacagtt	gaatatcc	
D. Sim	ttcta-gca	ccgttcttgtgttattcgcctagac-ca-tttcatggcctagcga----	GCGTCAAACAgAACGC	catactgaagc--aacgaatcac...47...attgccacagtt	gaaaatcc	
D. Sec	ttcta-gca	ccgttcttgtgttattcgcctagac-ct-tttcatggcctagcga----	GCGTCAAACAgAACGC	atactgaagc--acaaatcac...47...attgccacagtt	gaaaatcc	
D. Ere	ttctg-cta	ccgttcttgtgttattcgcctggat-gt-ttccatggctagcga----	GCGTCAAACAgAACGC	catactgaagc--aacgaatcac...48...cttgctacagct	gaaaaact	
D. Ana	ataca-cca	ccgttcttgtgttattcactggatgttattgtcaaatccagtga----	TGTCAAACAgAACG	-aagatcaaagcaactaatc--...50...attgcgacattt	gcactttt	
D. Gri	tttta-ata	ccgttcttgtgttatttgcctgaat-ttagtttatcattc----	AGTG	atTGTCAAACAgAACGC	acaacaaactccaagccagt--...79...aaagtttcagta	gtacagat
D. Moj	ttaca-tta	ccgttcttgtgttattcgcctgaat-tt-g----tactcccattc AGCG	AGCG	atTGTCAAACAgAACGC	acagaaaaattccaagtcagc--...52...ctggccacattc	tatttaat
D. Pse	-tatatccg	ccgttcttgtgttattcactggac-tcaccttatagtcctgtgat----	TGTCAAACAgAACGT	acagtaaactcaaagcaact--...54...tttgctacagag	taatccca	
D. Vir	aaacg-cta	ccgttcttgtgttattcgcctgaat-ct-gt---taatctcgttc AGCG	AGCG	atTGTCAAACAgAACGC	aaagcgaactccagccagt--...51...ctcgccacattt	attcttaa
D. Wil	attca-gta	tcgttcttgtgttatttgcgaaatctttcatctagttcggat----	TGTCAAACAgAACGC	agaataaagcattactccac--...140...actgactgtgtt	gaatcctt	
D. Yak	tttta-cta	ccgttcttgtgttattcgcctggat-gt-tttcatggctagtgga----	GCGTCAAACAgAACGC	catactgagc--aacgaatcac...48...cttgctacagtt	aaaaaact	
		***** * *		***** * *		

id=76677 gene=FBgn0083049 name=snoRNA:Psi18S-1377c segment=chr3R.26033044.26033180.-1 type=EN

D. Mel	aagaaaag	gt---gagtaactga...420...gatgacaagtgacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttgg-----...209...aactca-ttacag	agagattg
D. Sim	aggaaaaag	gt---gagtaactga...392...gatgacaagtgacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttgg-----...209...aactca-ttacag	aaagattg
D. Sec	aggaaaaag	gt---gagtaactga...385...gatgacaagtgacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttgg-----...212...aactca-ttacag	aaagattg
D. Ere	aagaaaag	gt---gagtaactgg...419...gatgacaacagacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttgg-----...209...aactca-ttacag	aaagattg
D. Ana	gggaggag	gt---aagtctcaat...388...-atgacaagtaacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttg-----...213...aactca-ttacag	aaattttg
D. Gri	aggaagag	gt---aagttcatgt...712...atactagaggagcaaaatgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttg-----...177...aactcg-ttacag	aaacattg
D. Moj	aggaagag	gt---aagttcatgt...266...gaagaggaagaacgaaacgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttg-----...444...aactcg-ttacag	aaatattg
D. Pse	acgaagag	gt---aagttcatgt...223...gatgacaagtgacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--gtttg-----...322...-actcatttacag	caacattg
D. Vir	aggaagag	gt---aagttcatgt...230...ggggagggttaataaacgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttg-----...467...aactcg-ttacag	aaatattg
D. Wil	aggaacag	gt---gagtgctgct...138...ggaagcgtgtgaaagatgc GTGTT ga TGTT t TGACGT	gagcgctcaactaa--ctttt-----...172...-ttttgattatag	gtacattg
D. Yak	aggaaaaag	gt---gagtaactat...419...gatgacaagtgacggggcgc GTGTT ga TGTT t TGACGT	gagcgccaaacaaa--ctttg-----...217...aactca-ttacag	aaagattg
		** **	***** * *	** **

id=26506 gene=FBgn0035581 name=CG17150 segment=chr3L.4865182.4865892.1 type=IN

Figure 34: CS=16.28



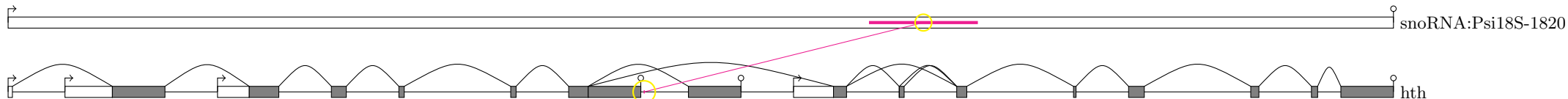
D. Mel	gaagtagt	acc-----CATGatATTAAGCCggCAGG	tgctgcaatccccacgggc...84...attcggtcgaca	tttcctct--
D. Sim	tcggaagt	acc-----CATGatATTAAGCCggCAGG	gcttgcaatccccacgggc...84...attcggtcgaca	tttctgtct--
D. Sec	tcggaagt	acc-----CATGatATTAAGCCggCAGG	gcttgcaatccccacgggc...84...attcggtcgaca	tttctgtct--
D. Ere	tacgaagt	acc-----CATGatATTAAGCCggCAGG	gcttgcaatccccacgggc...84...attcggtcgaca	tttcctct--
D. Ana	caaaactt	acc-----CATGatATTAAGCCggCAG	tgctgcaatctccacgcgca...81...tttcagtcgaca	gcttttta--
D. Gri	tcttactt	acc-----CATGatATTAAGCCggCAG	gcttgcaatccccacgggc...86...attcagactaca	aaacataa--
D. Per	-----t	ccccaTGACccCATGatATTAAGCCggCAG	gccccgtatccccataagc...83...tttcagactaca	cttccaag--
D. Pse	-----t	ccccaTGACccCATGatATTAAGCCggCAG	gccccgtatccccataagc...83...tttcagactaca	cttccaag--
D. Vir	caaatcgt	acc-----CATGatATTAAGCCggcagacgcatgtat	tttaa-----..94...-tcagaccaca	aattccaact
D. Wil	atttcttt	acc-----CATGatATTAAGCCggcagtgctgcgaaat	tttaa-----..95...tttcagaccac-	-atttcaacc
D. Yak	tacgaact	acc-----CATGatATTAAGCCggCAGG	tgctgcaatccccacgggc...84...tttcggtcgaca	ttttctcc--
		* **	***** ** * *	** * * **

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	agttgttg	gtaagtctggct...2175...tcgtcctcgggtgtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..1395...cctgtttttcag	aactgccc
D. Sim	agttgttg	gtaagtctggcg...2191...tcgtcctcgggtgtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..1438...cctgtttttcag	aactgccc
D. Sec	agttgttg	gtaagtctggcg...2213...tcgtcctcgggtgtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..1416...cctgtttttcag	aactgccc
D. Ere	agttgttg	gtaagtccgact...2144...tcgtcctcgggtgtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..1372...cctgtttttcag	aactgccc
D. Ana	agttgttg	gtaagtttcatt...2131...cgtcctcgggtgtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..967...atgttttcag	aactccc
D. Gri	ggtttag	gtaagtaaaaa...2585...gtgccttgaggtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..1158...atgttttcag	aactccc
D. Per	agttgtcg	gtaagtctcata...2042...ctgtccttggtgcaaataac	TCTGAGGTTTAAATCGTG	GTTAatgagctcaagtggcaatca...1085...cgtatcttcag	agctgccc
D. Pse	agttgtcg	gtaagtctcata...2015...ctgtccttggtgcaaataac	TCTGAGGTTTAAATCGTG	GTTAatgagctcaagtggcaatca...1079...cgtatcttcag	agctgccc
D. Vir	agttgtgg	gtaagtcaaaaa...2288...-----ctgaagcaaatagtcctga	GTTTAAATCGTG	gttaatgagctcaagtggc-----..952...ctattcttcag	agctgccc
D. Wil	agttgtgg	gtgagttcaccg...1915...-----ctgactggaataactctga	GTTTAAATCGTG	gttaatgagctcaagtggc-----..999...ctccatttcag	agttacc
D. Yak	agttgttg	gtaagtctgact...2199...tcgtcctcgggtgtaaataac	TCTGAGGTTTAAATCGTG	gttaatgagctcaagtggc-----..1520...cctgtttttcag	agctgccc
		**** * **	** * ** *****	* ** * **	* * **

id=100626 gene=FBgn0038498 name=beat-IIa segment=chr3R.13153089.13156739.-1 type=IN

Figure 35: CS=10.56



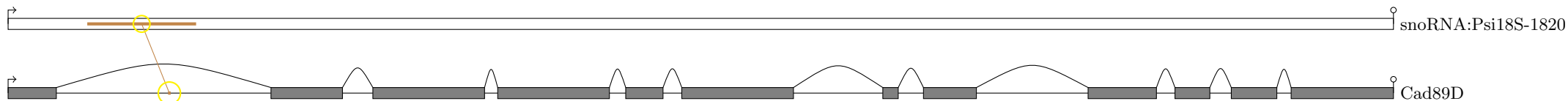
D.Me1	gaagtagt	accccatgatat...47...--tgggaacagcaaaagctgctg	ATGTGTGTATGTTGGG	-cagcg---ctcttatcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcctct--
D.Sim	tgcaagt	accccatgatat...47...--tgggaacagcaaaagctgctg	ATGTGTGTATGTTGGG	-cagcg---ctcttttcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--
D.Sec	tgcaagt	accccatgatat...47...--tgggaacagcaaaagctgctg	ATGTGTGTATGTTGGG	-cagcg---ctcttttcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatgatat...47...--tgggaacaacaaagcttctg	ATGTGTGTATGTTGGG	-cagcg---ctcttatactg	cgcgcttgacaaagaata-ttcggtcgaca	tttcctct--
D.Gri	tcttactt	accccatgatat...49...--tgggaacagtaaaagccgctg	ATGTGTGTATGTTGGG	-cagcg---ctcttatactg	cgcgcttgacaaagaata-ttcggtcgaca	tttcctct--
D.Moj	taagctat	accccaagat...47...actg	gggaacagaaatgccgcTGATGTGTGTATGT	----tgggtgtg	cgccccaccatgcgctatctgacaaagtaattttcagacgaca	tattctat--
D.Per	tccccatg	accccatgatat...47...--tgggaacagtaaaaggtgctg	ATGTGTGTATGTTGGG	-cagcg---ctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Pse	tccccatg	accccatgatat...47...--tgggaacagtaaaaggtgctg	ATGTGTGTATGTTGGG	-cagcg---ctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatgatat...49...--tgggaacagtaaacgctgctg	ATGTGTGTATGTTGGG	-cagcg---ctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Wil	atcttctt	accccatgatat...49...--tgggaacattaaagtcgctg	ATGTGTGTATGTTGGG	-cagcg---ctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Yak	tacgaact	accccatgatat...47...--tgggaacaacaaagctgctg	ATGTGTGTATGTTGGG	-cagcg---ctgtgatcctg	cgcgcttgacaaagattt-ttcggtcgaca	ttttctcc--
		***** **	***** **	***** **	***** **	***** **

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Me1	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagagt	tctat...390...aatgatcacag	cccagcac
D.Sim	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagagt	tctat...391...aatgatcacag	cccagcac
D.Sec	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagagt	tctat...388...aatgatcacag	cccagcac
D.Ere	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagagt	tctat...419...aatgatcacag	cccagcac
D.Gri	caaaaata	ac-----caa-ttttaa-----	CAATTTACATATGCACAT	--aactc---tatatagaa	-attata...395...tacaaacacag	tctcacac
D.Moj	caaaacta	ac-----caa-ttttaacaattt-----	ACATATGCACATTA	ctctccttatatata	---tat...373...acctaacacag	ccccacac
D.Per	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagaa	-actata...454...acttgatcacag	cccagcac
D.Pse	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagaa	-actata...470...acttgatcacag	cccagcac
D.Vir	caaaacta	ac-----caa-ttttaa-----	CAATTTACATATGCACAT	--aactc---tatatagaa	-actata...313...acttaaacacag	ccccacac
D.Wil	caaaccca	accccccaaaaaacaaacttactaacaatttttaacattttacaaca	AACATATGCACAT	--aactc---tatatacaa	-gctat...418...aatggaacacag	cccaccca
D.Yak	caaaacta	ac-----caatttttaacaat-----	TTTACATATGCACAT	--aactc---tatatagagt	tctat...411...aatgatcacag	cccagcac
		**** *	***** **	***** **	***** **	***** **

id=103969 gene=FBgn0001235 name=hth segment=chr3R.6409596.6410048.-1 type=IN

Figure 36: CS=10.56



```

D.Mel --gaagtag---T ACCCCATGATATtaagccggcaggtgcttgca...96...attcggtcgaca tttcctct--
D.Sec  tgcgaag----T ACCCCATGATATtaagccggcaggtgcttgca...96...attcggtcgaca tttcgtct--
D.Ere  tacgaag----T ACCCCATGATATtaagccggcaggtgcttgca...96...attcggtcgaca tttcctct--
D.Ana  --caaaa---CTT ACCCCATGATATtaagccggcagatgctcgaa...93...ttcagtcgaca gcttttta--
D.Gri  tctta----CTT ACCCCATGATATtaagccggcagacgcttgta...98...attcagactaca aaacataa--
D.Per  tccccatg---- ACCCCATGATATtaagccggcagacgcccgtta...95...ttcagactaca cttccaag--
D.Pse  tccccatg---- ACCCCATGATATtaagccggcagacgcccgtta...95...ttcagactaca cttccaag--
D.Vir  --caaatcg---T ACCCCATGATATtaagccggcagacgcatgta...100...-tcagaccaca aattccaact
D.Wil  -----atTTCTT ACCCCATGATATtaagccggcagttgctcgaa...101...ttcagaccac -atttcaacc
D.Yak  tacgaa----CT ACCCCATGATATtaagccggcaggtgcttgca...96...ttcggtcgaca ttttctcc--
*****
** * * * * *

```

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

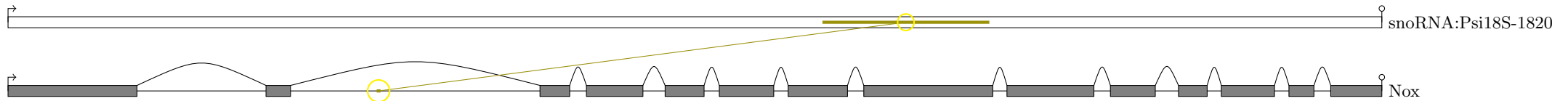
```

D.Mel agtgcaag gcaagttacaag...1666...caaacaaaaaatgcttaattATGTCATGaGGGTGggaactaaggcagcagaaaa-----...423...ccactttttag ccagctcc
D.Sec agtgcaag gcaagttgcaag...1629...caaacaaaaaatgcttaattATGTCATGaGGGTGggaactaaggcagcagaaaa-----...421...ccacttttcag ccagctcc
D.Ere agtgcaag gcaagttaccaa...1548...caaacaaaaatgcttaattATGTCATGaGGGTGggaactaaggcagcagaaaa-----...411...ccacttttcag ccaactcc
D.Ana agtgcaag gcaagtggtttg...1654...catacaaaaaatgcttaattATGTCATGaGGGTGGG----aagacagaaaaataatttgca...351...ccacttttcag ccagctcc
D.Gri agtgcaag gcaagtttttgg...1924...aaactgaaacatgtctaattATGTCATGaGGGTGGGaaactgaa-ttgcgagccttaa----...463...gctccactttag ccagctcg
D.Per agtgcaag gcaagttatagc...2080...tgaacaaaaaggcttaattATGTCATGaGGGTgggaaac---ggcagcagaaaaat-----...466...gctccactttag cgacctcc
D.Pse agtgcaag gcaagttatagc...2089...tgaacaaaaaggcttaattATGTCATGaGGGTgggaaac---ggcagcagcggcag-----...473...gctccactttag cgacctcc
D.Vir agtgcaag gcaagttgcggg...2247...aaacaaaacattgtctaattATGTCATGaGGGTGggaacccgac-ctgcaagcctt-----...427...gttccactttag tgggctcc
D.Wil agtgcaag gcaagttcaaaa...2517...gcaagaaaaatgtctaattATGTCATGaGGGTGGGAA---ctgcagcagagaagaacaaa...354...gccccactttag caacctcc
D.Yak agtgcaag gcaagttacaag...1729...caagcgaaaaatgcttaattATGTCATGaGGGTGGgaaccgagcagcagaaaaat-----...455...ccacttttcag ccaactcc
*****
*****
** *****
* * * * *
* * * * *
***

```

id=116165 gene=FBgn0038439 name=Cad89D segment=chr3R.12318759.12320925.-1 type=IN

Figure 37: CS=10.8



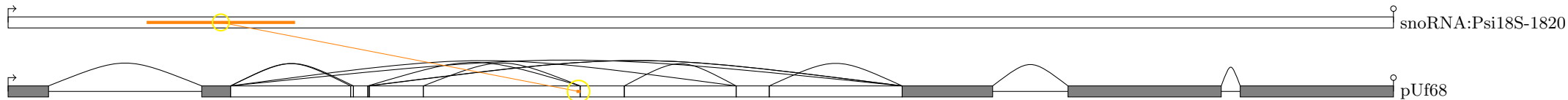
D.Mel	gaagtagt	accccatgatat...43...tgattgggaacagcaaagct	GCTGaTGTGtgTATGTTGGGCA	----	gcgctctttatcctgcgcgctcgacaaagaata-ttcggtcgaca	tttcctct--
D.Sim	tgcgaaagt	accccatgatat...43...tgattgggaacagcaaagct	GCTGaTGTGtgTATGTTGGGCA	----	gcgctcttttctgcgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--
D.Sec	tgcgaaagt	accccatgatat...43...tgattgggaacagcaaagct	GCTGaTGTGtgTATGTTGGGCA	----	gcgctcttttctgcgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--
D.Gri	tcttactt	accccatgatat...45...tgactgggaacagtaaaagcc	GCTGaTGTGtgTATGTTGG	----	aattgcgcttta--tctgcgcatctgacaaagatttattcagactaca	aaacataa--
D.Moj	taagctat	accccaagat...45...tgactgggaacagaaatgcc	GCTGaTGTGtgTATGTTGGTtGCGC	ccac-----	catgctatctgacaaagtaattttcagacgaca	tattctat--
D.Per	tccccatg	accccatgatat...43...tgattgggaacagtaaaaggt	GCTGaTGTGtgTATGTTGGGCA	----	gcgctctt-tcctgcgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Pse	tccccatg	accccatgatat...43...tgattgggaacagtaaaaggt	GCTGaTGTGtgTATGTTGGGCA	----	gcgctctt-tcctgcgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatgatat...45...tgactgggaacagtaaacgct	GCTGaTGTGtgTATGTTGG	----	agttgcgcttg--cttggtatccgacaaagttattttcagaccaca	aattccaact
D.Yak	tacgaact	accccatgatat...43...tgattgggaacaacaagct	GCTGaTGTGtgTATGTTGGGCA	----	gcgctgtgatcttgcgcgcttgacaaagattt-ttcggtcgaca	ttttctcc--
		***** **				

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	cggtaac	gtaagtggtggt...291...-----gcgatgctatctgcccgtg	TGTTAACATATACAA	CAGC	taacatagtcgcatgcctc...700...tgaatcttcag	ggacgatc	
D.Sim	cggtaac	gtaagtggtggt...293...-----gcgatgctatctgcccgtg	TGTTAACATATACAA	CAGC	taacatagtcgcatgcctc...710...tggatcttcag	ggacgatc	
D.Sec	cggtaac	gtaagtggtggt...292...-----gcgatgctatctgcccgtg	TGTTAACATATACAA	CAGC	taacatagtcgcatgcctc...721...tggatcttcag	ggacgatc	
D.Gri	cgactcac	gtaagtaaggga...705...-----gatgctatctgtgttata	TAAACATATACAA	CAGC	taacatagtcgcatgcccc...263...ttttgctgcag	cgacgatc	
D.Moj	cgactaac	gtgagtatggca...871...cgccgatggtgatgctatct	GTGTGTATgt	TAAACATATACAA	CAGC	taacatagtcgcatgcccc...502...ttaccttaaag	cgatgatc
D.Per	cgtttaac	gtaagttttgt...359...-----gcgatgctatctgtgttata	TGTTAACATATACAA	CAGC	taacatagtcgcatgcctc...292...ctctggttacag	cgacgacc	
D.Pse	cgtttaac	gtaagttttgt...356...-----gcgatgctatctgtgttata	TGTTAACATATACAA	CAGC	taacatagtcgcatgcctc...292...ctctggttacag	cgacgacc	
D.Vir	cgactcac	gtaagtcaggt...489...-----gatgctatctgtgttata	TAAACATATACAA	CAGC	taacatagtcgcatgctcc...314...tttgcttcgag	cgacgatc	
D.Yak	cggtaac	gtaagtggtggt...302...-----gcgatgctatctgcccgtg	TGTTAACATATACAA	CAGC	taacatagtcgcatgcctc...740...tggatcttcag	ggacgatc	
	** * **	** * **	***** * **	***** * **	** * **	** * **	

id=91656 gene=FBgn0085428 name=Nox segment=chr2R.12198661.12199734.1 type=IN VIEW

Figure 38: CS=11.34



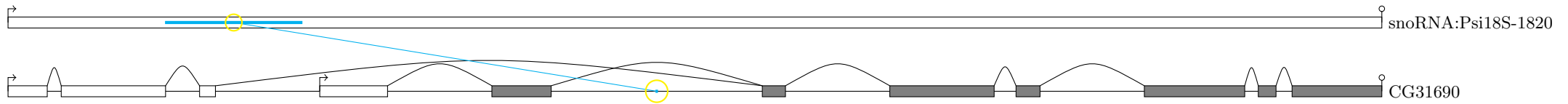
D.Mel	gaagtagt	acccc	ATGATA	TAAG	CGGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgaca	tttcctct--
D.Sim	tgcggaagt	acccc	ATGATA	TAAG	CGGCAGGTG	cttgcaatccccacgggcac...82...attcggtcgaca	tttcgtct--
D.Sec	tgcggaagt	acccc	ATGATA	TAAG	CGGCAGGTG	cttgcaatccccacgggcac...82...attcggtcgaca	tttcgtct--
D.Ere	tacgaagt	acccc	ATGATA	TAAG	CGGCAGGTG	cttgcaatccccacgggcac...82...attcggtcgaca	tttcctct--
D.Ana	caaaaact	acccc	ATGATA	TAAG	CGGCAGATG	ctcgaatctccacgcgcatt...79...tttcagtcgaca	gctttta--
D.Gri	tcttactt	acccc	ATGATA	TAAG	CGGCAG	acgcttgtaatttaaccagc---.87...atcagactaca	aaacataa--
D.Moj	taagctat	acccc	GATA	TAAG	CGGCAGT	cgcttcgattttaaaccagc---.86...tttcagacgaca	tattctat--
D.Per	tccccatg	acccc	ATGATA	TAAG	CGGCAG	acgcccgtatccccataag---.84...tttcagactaca	cttccaag--
D.Pse	tccccatg	acccc	ATGATA	TAAG	CGGCAG	acgcccgtatccccataag---.84...tttcagactaca	cttccaag--
D.Vir	caaatcgt	acccc	ATGATA	TAAG	CGGCAG	acgcatgattttaaaccagc---.89...tcagaccaca	aattccaact
D.Wil	atttcttt	acccc	ATGATA	TAAG	CGGCAGT	tgctcgaatttaaccaaga---.89...tttcagaccac-	-atccaact
D.Yak	tacgaact	acccc	ATGATA	TAAG	CGGCAGGTG	cttgcaatccccacgggcac...82...tttcggtcgaca	ttttctct--
		*****	*****	*****	*****	*****	*****

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	atcagtga	gtccaagtcccg-----...723...gaagctaaccaacttaaca--	TATTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Sim	atcagtga	gtccaagtcccg-----...731...gaagctaaccaacttaaca--	TATTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Sec	atcagtga	gtccaagtcccg-----...735...gaagctaaccaacttaaca--	TATTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Ere	atcagtga	gtccaagtcccg-----...755...gaagctaaccaacttaaca--	TATTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Ana	ttcagtga	gtcctgagcctg-----...671...aaacctaaccaacttaaca--	TATTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Gri	ttcagtga	atccccgttgca-----...760...---cttaaccaactt-aaaacata	TTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Moj	----tac	agccagaatgtatgct...857...---cttaaccaactt-aaaacata	TTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Per	cgccgtga	atgcagaatgaa-----...954...---ttaaccaactt-aaaacata	TTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Pse	cgccgtga	atgcagaatgaa-----...954...---ttaaccaactt-aaaacata	TTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Vir	taacataa	gatcgaagcgtt-----...1137...---ttaaccaactt-aaaacata	TTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Wil	atcagtga	gtcctcgtcatg-----...1788...---cttaaccaactt-aaaacata	TTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
D.Yak	atcagtga	gtccaagtcccg-----...796...gaagctaaccaacttaaca--	TATTGTGCTCTTAt	TATCGT	ttcag	cgctctgt
		*	*	*****	*****	*****

id=50400 gene=FBgn0028577 name=pUf68 segment=chr3L.1500389.1501169.-1 type=AN

Figure 39: CS=12.96



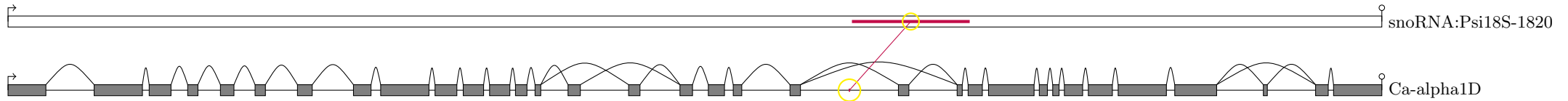
D.Mel	gaagtagt	accccatg	ATATT	AGCCG	GCAGGTG	cttgcaatccccacgggcac-----..82..attcggtcgaca	tttcctct--
D.Sim	tgcaagt	accccatg	ATATT	AGCCG	GCAGGTG	cttgcaatccccacgggcac-----..82..attcggtcgaca	tttcgtct--
D.Sec	tgcaagt	accccatg	ATATT	AGCCG	GCAGGTG	cttgcaatccccacgggcac-----..82..attcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatg	ATATT	AGCCG	GCAGGTG	cttgcaatccccacgggcac-----..82..attcggtcgaca	tttcctct--
D.Ana	caaaactt	accccatg	ATATT	AGCCG	GCAGATG	ctcgaatctccacgcgcatt-----..79..tttcagtcgaca	gcttttta--
D.Gri	tcttactt	accccatg	ATATT	AGCCG	GCAGACg	CTTGTaatthaaccagcggcgtctg..79..attcagactaca	aaacataa--
D.Moj	taagctat	accccaa	GATATT	AGCCG	GCAGT	ctgttcgtatthtaaccagc-----..87..tttcagacgaca	tattctat--
D.Per	tccccatg	accccatg	ATATT	AGCCG	GCAGACG	cccgtatccccataagcgt-----..81..tttcagactaca	cttccaag--
D.Pse	tccccatg	accccatg	ATATT	AGCCG	GCAGACG	cccgtatccccataagcgt-----..81..tttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatg	ATATT	AGCCG	GCAGACg	CATGTatthtaaccagcgtctg..81..--tcagaccaca	aattccaact
D.Wil	atthcttt	accccatg	ATATT	AGCCG	GCAGT	ctgtctgaaatthaaccaag-----..90..tttcagaccac-	-atthcaacc
D.Yak	tacgaact	accccatg	ATATT	AGCCG	GCAGGTG	cttgcaatccccacgggcac-----..82..tttcggtcgaca	ttttctcc--
		*****	*****	*****	*****	*****	*****

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	cgtccgag	gtaag----	tttgaa...4129...	gattccacgt--agacacaaca-----	TGCTGCGGCTAATAT	aaagcgaagaatgcc-atgac-...780...	tctctctgcag	catgtcgg
D.Sim	cgtccgag	gtaag----	tttgaa...4128...	gattccacgt--agacacaaca-----	TGCTGCGGCTAATAT	aaagcgaagaatgcc-atgac-...781...	tcctcctgcag	catgtcgc
D.Sec	cgtccgag	gtaag----	tttgaa...4206...	gattccacgt--agacacaaca-----	TGCTGCGGCTAATAT	gaagcgaagaatgcc-atgac-...703...	tcctcctgcag	catgtcgc
D.Ere	cgtccgag	gtaag----	tttgaa...4059...	gattccacgt--agacacaaca-----	TGCTGCGGCTAATAT	aaagcgaagaatgcc-atgac-...850...	tctctctgcag	catgtcgc
D.Ana	cgtccgag	gtaag----	ctcccaa...2565...	cgggccacgt--agacacaaca-----	TGCTGCGGCTAATAT	aaaacgaagaatgcc-atgac-...2344...	gctccttgcag	catgtcgc
D.Gri	ggatgccc	aaaat----	tcttaag...3876...	-----gggtta-----	ACAAGTCTGCGGCTAATAT	aaaacgaagaatgcc-atgac-...1030...	ctttgttgcag	aatggatg
D.Moj	caactaag	gtaagccacatc-----	...2645...	-----ggccgctacatacaacatgt-----	CTGCGGCTAATAT	aaagcgaagaatgcc-atgagg...2266...	ttctccttgcag	aatgctgg
D.Per	tgtcctcc	atata----	tgtggaa...4048...	actggggcac--agacacaaca-----	TGCTGCGGCTAATAT	aaaacgaagaatgcc-atgac-...861...	gtctccttgcag	catggcgg
D.Pse	tgtcctcc	atata----	tgtggaa...4088...	actggggcac--agacacaaca-----	TGCTGCGGCTAATAT	aaaacgaagaatgcc-atgac-...821...	gtctccttgcag	catggcgg
D.Vir	aaactaag	gtaggataaatc----	...4085...	-----ag-caatgcatacaacacaca----	ACATGTCTGCGGCTAATAT	aaaacgaagaatgcc-atgag-...821...	ctctccttgcag	catggagg
D.Wil	aagctgag	gtaagaatattt-----	...4297...	-----gaaacacaacacacacatgt-----	CTGCGGCTAATAT	aaaacgaagaatgcc-atgac-...615...	ttttaatggcag	catggaga
D.Yak	cgtgcgag	gtaag----	ttctgaa...4061...	--ttccacgtgcagacacaaca-----	TGCTGCGGCTAATAT	aaaacgaagaatgcc-atgac-...848...	tctctcttgcag	catgtcgc
		*		*****	*****	*****	*****	*****

id=93459 gene=FBgn0051690 name=CG31690 segment=chr2L.2684152.2704925.1 type=IN

Figure 40: CS=12.96



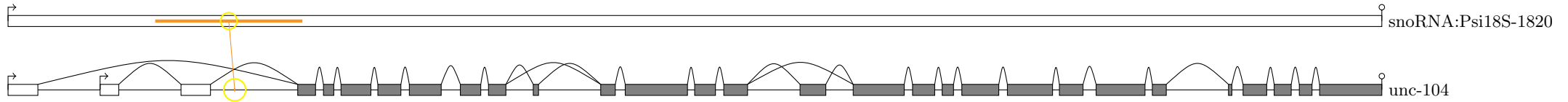
D. Mel	gaagtagt	accccatgatat...46...ttgggaacagcaaagctgct	GATGTGTGt	ATGTTGGG	-cagcgct---cttactctg	cgcgctcgacaagaata-ttcggtcgaca	tttcctct--
D. Sim	tcggaagt	accccatgatat...46...ttgggaacagcaaagctgct	GATGTGTGt	ATGTTGGG	-cagcgct---cttttctg	cgcgctcgacaagaata-ttcggtcgaca	tttcgtct--
D. Sec	tcggaagt	accccatgatat...46...ttgggaacagcaaagctgct	GATGTGTGt	ATGTTGGG	-cagcgct---cttttctg	cgcgctcgacaagaata-ttcggtcgaca	tttcgtct--
D. Ere	tacgaagt	accccatgatat...46...ttgggaacaacaaagcttct	GATGTGTGt	ATGTTGGG	-cagcgct---cttatactg	cgcgcttgacaagaata-ttcggtcgaca	tttcctct--
D. Gri	tcttactt	accccatgatat...48...ctgggaacagtaaagccgct	GATGTGTGt	ATGTTGGAATTG	cgct---tta--tctg	cgcatctgacaagatttattcagactaca	aaacataa--
D. Moj	taagctat	acccaagatat...48...ctgggaacagaaatgccgct	GATGTGTGt	ATGT	----tgtgttg	cgccaccatcgctatctgacaagtaattttcagacgaca	tattctat--
D. Per	tccccatg	accccatgatat...46...ttgggaacagtaaaggtgct	GATGTGTGt	ATGT	-tgggcagcgct---ctt-tc	ctgcaactcgacaagaata-ttcagactaca	cttccaag--
D. Pse	tccccatg	accccatgatat...46...ttgggaacagtaaaggtgct	GATGTGTGt	ATGT	-tgggcagcgct---ctt-tc	ctgcaactcgacaagaata-ttcagactaca	cttccaag--
D. Vir	caaatcgt	accccatgatat...48...ctgggaacagtaaagctgct	GATGTGTGt	ATGT	----tggagttg	cgccctgctgtgtatccgacaagtaattttcagaccaca	aattccaact
D. Wil	athtcttt	accccatgatat...48...ctgggaacattaaagtcgct	GATGTGTGt	ATGT	-taaacagcg	tattcttaccctg	cggttcgacaagaata-ttcggtcgaca
D. Yak	tacgaact	accccatgatat...46...ttgggaacaacaaagctgct	GATGTGTGt	ATGTTGGG	-cagcgct---gtgatctt	g	cggttcgacaagaata-ttcggtcgaca
		***** **	***** **	***** **	***** **	***** **	***** **

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	tgtttaag	gtatgattttaa...713...-----catttattatactatcaaat---	CTTAtATATt	CACAccCATT	ttctg	cgttgtacacgtct--...759...aaacttctgcag	tatgtggt
D. Sim	tgtttaag	gtatgattttaa...696...-----catttattatactatcaaat---	CTTAtATATt	CACAccCATT	ttctg	cgttgtacacgtct--...783...aaacttctgcag	tatgtggt
D. Sec	tgtttaag	gtatgattttaa...695...-----catttattatactatcaaat---	CTTAtATATt	CACAccCATT	ttctg	cgttgtacacgtct--...783...aaacttctgcag	tatgtggt
D. Ere	tgtttaag	gtatgattttat...730...-----catttattgattatcaact---	CTTAtATATt	CACAccCATT	ttctg	cgttgtacacgtct--...784...aaatttctgcag	tatgtggt
D. Gri	tgtttaag	gtatgattttgt...750...-----attaacatataaacttgt	CAATTCTGATATt	CACAccCATT	ttctg	cg-ttgtatcgctca-...809...aaaaatacacag	tatgtggt
D. Moj	tgtttaag	gtatgattttgt...778...-----gtgtaaacctgtcaactcct---	ATATt	CACAccCATT	ttctg	cg-tca-acatgtatag...939...aacctgttacag	tacgtggt
D. Per	tgtttaag	gtatgattttcg...994...tctacttttaaatatataat-----	ATATt	CACAccCATT	ttccg	cgttgtaaaacgtct--...1054...ctacttctgcag	tatgtggt
D. Pse	tgtttaag	gtatgattttcg...993...tctacttttaaatatataat-----	ATATt	CACAccCATT	ttccg	cgttgtaaaacgtct--...1089...ctacttctgcag	tatgtggt
D. Vir	tgtttaag	gtatgattttgt...763...-----gtgtaaacctgtcaattatt---	ATATt	CACAccCATT	ttctg	cg-ttgtatcgctcaa-...1025...tatataatacacag	tatgtggt
D. Wil	tgtttaag	gtatgattttct...853...-----atataaatgtaatttcatt---	ATATt	CACAccCATT	ttctg	cgtttct--tctgtaaa...1081...aaaactttatag	tacgtggt
D. Yak	tgtttaag	gtatgattttat...750...-----catttactgtactattaact---	CTTAtATATt	CACAccCATT	ttctg	cgttgtacacgtct--...791...aaacttctgcag	tatgtggt
		***** **	***** **	***** **	***** **	***** **	***** **

id=115379 gene=FBgn0001991 name=Ca-alpha1D segment=chr2L.16180247.16181803.1 type=IN

Figure 41: CS=11.88



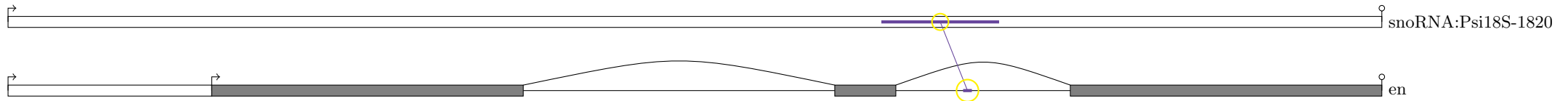
D.Mel	gaagtagt	acccca	TGATA	ttAAGC	cgGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgac--a	tttctct
D.Sim	tgcgaagt	acccca	TGATA	ttAAGC	cgGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgac--a	tttctct
D.Sec	tgcgaagt	acccca	TGATA	ttAAGC	cgGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgac--a	tttctct
D.Ere	tacgaagt	acccca	TGATA	ttAAGC	cgGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgac--a	tttctct
D.Gri	tcttactt	acccca	TGATA	ttAAGCCGGCAG	acgcttgtaatttaaccagc---.87...attcagactacaaa	acataa--	
D.Moj	taagctat	accccaa	GATA	ttAAGC	cgGCAGTCG	ttcgtattttaaccagcggc...84...tttcagacgacata	ttctat--
D.Vir	caaatcgt	acccca	TGATA	ttAAGCCGGCAG	acgcatgtattttaaccagc---.89...--tcagaccacaaa	ttccaact	
D.Wil	atttcttt	acccca	TGATA	ttAAGCCGGCAGTTG	ctcgaatttaaccaagagc...87...tttcagaccac--a	tttcaacc	
D.Yak	tacgaact	acccca	TGATA	ttAAGC	cgGCAGGTG	cctgcaatccccacgggcac...82...tttccggtcgac--a	tttctct
		*	*****	*****	* * * *		** * * * *

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	-----aactaaag	gtaattta	atct...146...-----ttcgactattggccgacact	CGTCTGCGC	TTtTATTG	gaagcattt	gtgattgtgg	----...570...tttcactccag	ttaaccgg
D.Sim	-----aactaaag	gtaattta	atcc...146...-----ttcgactattggccgacact	CGTCTGCGC	TTtTATTG	gaagca-tt	gtgattgtgga	----...555...tttcactccag	ttaaccgg
D.Sec	-----aactaaag	gtaattta	atct...146...-----ttcgactattggccgacact	CGTCTGCGC	TTtTATTG	gaagca-tt	gtgattgtgga	----...524...tttcactccag	ttaaccgg
D.Ere	-----aactaaag	gtaaattg	atct...144...-----ttcgactattggccaacact	CGTCTGCGC	TTtTATTG	gaagca-tt	gtgattgtgga	----...580...tttcactccag	ttaaccgg
D.Gri	-----aagtaaag	gtaaatca	ataaa...176...-----attcg---agtgcctgacactcg	GCTGCGC	TTtTATTG	gaaa---	tgtggattgtggaatt	...910...gctccactccag	ttaagagc
D.Moj	atccagag	taaag	gtaaac-----a...135...----tcattcg---agtgtccaactact	CGGCTGCGC	TTtTATTG	ggaag---	tgtggattgtggaat	...1259...cttccactccag	ttaaccgc
D.Vir	-----attcaag	gtaacaat	atct...98...-----attcg---agtgcctgacactcg	GCTGCGC	TTtTATTG	ggaag---	tgtggattgtggaatt	...1485...cttccactccag	ttaaccgc
D.Wil	-----aatttagt	ttggcttt	tct...122...tgactcattcg---tggggccga	CAGTcgGCTGCGC	TTtTATTG	gaactgttt	ggaactattt	----...725...ctcttattccag	ttaaacgc
D.Yak	-----aactaaag	gtaatttc	atct...143...-----ttcgactattggccgacact	CGTCTGCGC	TTtTATTG	gaagca-tt	gtgattgtgga	----...602...tttcactccag	ttaaccgg
		*	*	****	* * * *	*****	*****	* * * *	** * * *

id=131829 gene=FBgn0034155 name=unc-104 segment=chr2R.12650846.12651642.-1 type=I5 VIEW

Figure 43: CS=11.97



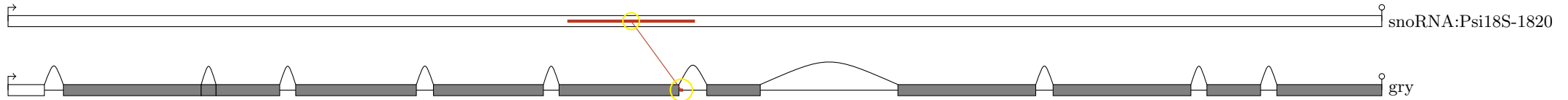
D. Mel	gaagtagt	accccatgatat...49...-----ggaacagcaaagctgctgat	GTGTGTATg	TTGGGCAG	cgctctttctctg	cgctcgcaaaagaata-ttcggtcgaca	tttcctc--t	
D. Sim	tgcggaagt	accccatgatat...49...-----ggaacagcaaagctgctgat	GTGTGTATg	TTGGGCAG	cgctctttctctg	cgctcgcaaaagaata-ttcggtcgaca	tttcgtc--t	
D. Sec	tgcggaagt	accccatgatat...49...-----ggaacagcaaagctgctgat	GTGTGTATg	TTGGGCAG	cgctctttctctg	cgctcgcaaaagaata-ttcggtcgaca	tttcgtc--t	
D. Ere	tacgaagt	accccatgatat...49...-----ggaacaacaagcttctgat	GTGTGTATg	TTGGGCAG	cgctcttatactg	cgctcgcaaaagaata-ttcggtcgaca	tttcctc--t	
D. Gri	tcttactt	accccatgatat...50...-----gggaacagtaagccgctga	TGTGTGTATg	TTGG	-aattg	cgcttctctgcaaaagattttcagactaca	aaacata--a	
D. Moj	taagctat	acccaagatat...50...-----gggaacagaaatg	TGTGTGTATg	TTGGT	-gttgc	gccaccatgctatctgcaaaagtaattttcagacgaca	tattcta--t	
D. Per	tccccatg	accccatgatat...47...-----gggaacagtaaggtgctg	ATGTGTGTATg	TTGGGCAG	cgctctt-t	ctctgcaaaagaaat-ttcagactaca	cttccaa--g	
D. Pse	tccccatg	accccatgatat...47...-----tgggaacagtaaggtgctg	ATGTGTGTATg	TTGGGCAG	cgctctt-t	ctctgcaaaagaaat-ttcagactaca	cttccaa--g	
D. Vir	caaatcgt	accccatgatat...42...ctatgactgggaacagtaac	GCTGCTGATG	TGTGTATg	TTGG	-agt	gctgtgtatctcgcaaaagttattttcagaccaca	aattccaact
D. Yak	tacgaact	accccatgatat...49...-----ggaacaacaagctgctgat	GTGTGTATg	TTGGGCAG	cgctgtgatctt	g	cgcttgcgcaaaagattt-ttcggtcgaca	ttttctc--c
		***** **	*	*****	**	**	***** ** * **	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	gccttaag	gtgagattcagt...63...ctacgctgtgtgtcatat-	TTGC	CCAAa	ATATtg	ACAC	-----cgccc	gctgctaatgcatcc-...133...ttccacttacag	cgggagtt	
D. Sim	gcctcaag	gtgagattcagt...69...ttacgctgtgtgtcatat-	TTGC	CCAAa	ATATtg	ACAC	-----cgccc	gctgctaatgcatcc-...131...ttccacttacag	cgggagtt	
D. Sec	gcctcaag	gtgagattcagt...70...ctacgctgtgtgtcatat-	TTGC	CCAAa	ATATtg	ACAC	-----cgccc	gctgctaatgcatcc-...131...ttccacttacag	cgggagtt	
D. Ere	gcctcaag	gtgagaatctgt...34...ctacgctgtgtgtcatat-	TTGC	CCAAa	ATATtg	ACAC	-----cgccc	gctgctaatgcatcc-...137...ttccacttacag	cgggagtt	
D. Gri	gcctcaag	gtaagcatcaca...415...-----ttgtgtgtcatatttag	CCAAa	ATATtt	ACACA	-cttt-----acacacgctg-cgccgc-----	...306...tctcatttacag	cgccaatt		
D. Moj	gcctaaag	gtaagcatcctc...60...-----aatgtgtgtcatatttag	CCAAa	ATATtt	ACACA	-cttt-----acacacgctg-cgccgc-----	...235...tctcatttacag	cgccaatt		
D. Per	gcctcaag	gtaagcatcaca...35...gatccctgtgtgtcatat-	TTGC	CCAAa	ATATtt	ACACAT	atatttccgagacccccgcgg-----	...246...ttctacttacag	cgggagtt	
D. Pse	gcctcaag	gtaagcatcaca...35...gatccctgtgtgtcatat-	TTGC	CCAAa	ATATtt	ACACAT	atatttccgagacccccgcgg-----	...246...ttctacttacag	cgggagtt	
D. Vir	gcctcaag	gtaagcagtcct...46...-----gtgtgtgtcatatttag	CCAAa	ATATtt	ACACA	ctTTAGtg	TGGC	cgccc	gctgcatcct...220...tctcatttacag	cgccaatt
D. Yak	gcctcaag	gtgagattcagt...58...ctacgctgtgtgtcatat-	TTGC	CCAAATAT	tg	ACAC	-----cgccc	gctgcatcct...152...ttccacttacag	cgggagtt	
		**** **	**	*****	*	*****	*	*	***** ** * **	

id=28452 gene=FBgn0000577 name=en segment=chr2R.7412353.7412632.-1 type=IN VIEW

Figure 44: CS=11.8



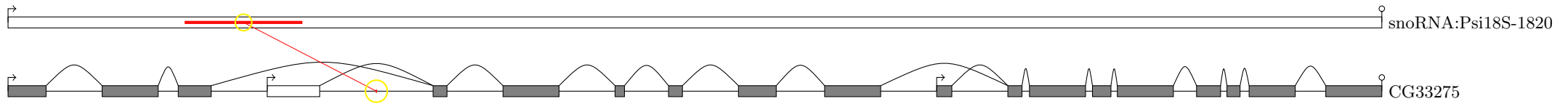
D. Mel	gaagtagt	accccatgatattaagccggcaggtgcttgc	aatcc--ccacgggcacctg	TGACTATG	atTGGG	aacagcaaagctgctgatgt...45...attcggtcgac--a	tttctct
D. Sim	tgcgaaagt	accccatgatattaagccggcaggtgcttgc	aatcc--ccacgggcacctg	TGACTATG	atTGGG	aacagcaaagctgctgatgt...45...attcggtcgac--a	tttctct
D. Sec	tgcgaaagt	accccatgatattaagccggcaggtgcttgc	aatcc--ccacgggcacctg	TGACTATG	atTGGG	aacagcaaagctgctgatgt...45...attcggtcgac--a	tttctct
D. Ere	tacgaagt	accccatgatattaagccggcaggtgcttgc	aatcc--ccacgggcacctg	TGACTATG	atTGGG	aacaacaaagcttctgatgt...45...attcggtcgac--a	tttctct
D. Gri	tcttactt	accccatgatattaagccggcagacgcttg	taatttaaccagcggcgtctg	TGACTATG	acTGGG	aacagtaaagcgcgctgatgt...45...attcagactacaaa	acataa--
D. Moj	taagctat	accccaagatattaagccggcagctgctt	gcatttttaaccagcggcgcag	TGTGACTATG	acTGGG	aacagaaatgcgcgctgatgt...45...tttcagacgacata	ttctat--
D. Vir	caaatcgt	accccatgatattaagccggcagacgcat	gtatttttaaccagcgtcgtctg	TGACTATG	acTGGG	aacagtaaagcgcgctgatgt...47...--tcagaccacaaa	ttccaact
D. Wil	atttcttt	accccatgatattaagccggcagttgctc	gaaatttaaccaagagcagctg	TGACTATG	acTGGG	aacattaaagcgcgctgatgt...48...tttcagaccac--a	tttcaacc
D. Yak	tacgaact	accccatgatattaagccggcaggtgcttgc	aatcc--ccacgggcacctg	TGACTATG	atTGGG	aacaacaaagctgctgatgt...45...tttcggtcgac--a	ttttctcc
		***** ***** * * * * * ** * ***** ***** * * * ***** ** * * * * *					

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	gcgCCCAC	GTA	GTCA	--aacgattggtaccggaagc-----	...61...tttctataccag	ctttcatc
D. Sim	gcgCCCAC	GTA	GTCA	--aagcgattggtaccggaagc-----	...61...tttctataccag	ctttcatc
D. Sec	gcgCCCAC	GTA	GTCA	--aagcgattggtaccggaagc-----	...61...tttctataccag	ctttcatc
D. Ere	gcgCCCAC	GTA	GTCA	--aagcgattggtaccggaagc-----	...61...tttctataccag	ctttcatt
D. Gri	gcgCCCAC	GTA	GTCA	--aaacgcttcgtaccggaagc-----	...57...catttattgcag	cttcatt
D. Moj	gcgCCCAC	GTA	GTCACA	aaa-----accggaagccataagca...34...cttccattgcag	cttcatt	cttcatt
D. Vir	gcgCCCAC	GTA	GTCA	--aaacgcttcgtaccggaagc-----	...51...ctttcattgcag	cttcatt
D. Wil	gcgCCCAC	GTA	GTCA	--aaacgcttcgtaccggaagc-----	...94...ctttgattgcag	tttcatt
D. Yak	gcgCCCAC	GTA	GTCA	--aagcgattggtaccggaagc-----	...61...cctctattccag	ttttcatt
	*****	*****	**	* * * * *	* * * * *	** ** *

id=71522 gene=FBgn0035416 name=gry segment=chr3L.3201908.3202008.1 type=IN

Figure 46: CS=10.62



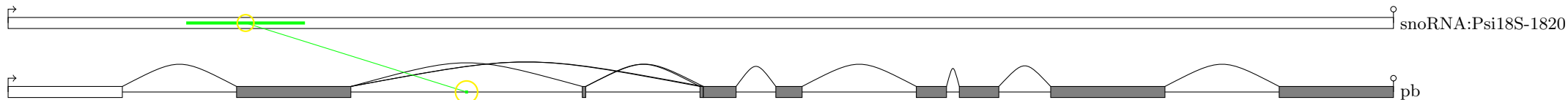
D. Mel	gaagtagt	acccatgat	ATTAAGCCgGCAG	gtgcctgcaatccccacggg...	85...	attcggtcgaca	tttcctct--
D. Sim	tgcgaagt	acccatgat	ATTAAGCCgGCAG	gtgcttgcaatccccacggg...	85...	attcggtcgaca	tttctgtct--
D. Sec	tgcgaagt	acccatgat	ATTAAGCCgGCAG	gtgcttgcaatccccacggg...	85...	attcggtcgaca	tttctgtct--
D. Ere	tacgaagt	acccatgat	ATTAAGCCgGCAG	gtgcttgcaatccccacggg...	85...	attcggtcgaca	tttctct--
D. Ana	caaaactt	acccatgat	ATTAAGCCgGCAG	atgctcg-aatctccacgcgc...	82...	tttcagtcgaca	gcttttta--
D. Gri	tcttactt	acccatgat	ATTAAGCCgGCAG	cgcttgtaatttaaccagcg...	86...	attcagactaca	aaacataa--
D. Moj	taagctat	acccaagat	ATTAAGCCgGCAG	tcgcttattttaaccagcg...	86...	tttcagacgaca	tattctat--
D. Per	tccccatg	acccatgat	ATTAAGCCgGCAG	cgcccgtatccccataagc...	83...	tttcagactaca	cttccaag--
D. Pse	tccccatg	acccatgat	ATTAAGCCgGCAG	cgcccgtatccccataagc...	83...	tttcagactaca	cttccaag--
D. Vir	caaatcgt	acccatgat	ATTAAGCCgGCAG	cgcatgtattttaaccagct...	88...	-tcagaccaca	aattccaact
D. Yak	tacgaact	acccatgat	ATTAAGCCgGCAG	gtgcttgcaatccccacggg...	85...	tttcggtcgaca	ttttctcc--
		*****				*****	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	gttttgag	gtaatttctggt...	3534...	--acgatg	cgcttg	cgatcgcttg	-----	CTGCGGCT	TGAT	caaatgacaaaattgatcat...	1378...	cgtttcttgag	tcctgggt
D. Sim	gttttgag	gtaatttctggt...	3307...	--acgatg	cgcttg	cgatcgcttg	-----	CTGCGGCT	TGAT	caaatgacaaaattgatcat...	1605...	cgctctttgag	tcctgggt
D. Sec	gttttgag	gtaatttctggt...	3527...	--acgatg	cgcttg	cgatcgcttg	-----	CTGCGGCT	TGAT	caaatgacaaaattgatcat...	1385...	gtcttcttgag	tcctgggt
D. Ere	gttttgag	gtaatttctggt...	3558...	--acgatg	cgcttg	cgatcgcttg	-----	CTGCGGCT	TGAT	caaatgacaaaattgatcat...	1354...	cgctctttgag	tcctgggt
D. Ana	agtttgag	gtaatttctggt...	3829...	--acgatg	cgcttg	cgatcgcttg	-----	CTGCGGCT	TGAT	caaatgacaaaattgatcat...	1083...	cttatctttgag	tcctgggt
D. Gri	tgctgag	gtaatttctggt...	3795...	---gatg	cgcttg	cgatcgcttg	-----	TCTGCTGCGGCT	TGAT	caaatgacaaaattgatcat...	1113...	ctatcgcttgag	tcctgggt
D. Moj	gttgtaaa	attgtatttata...	3822...	---cgatg	cgcttg	cgatcgcttg	-----	GCTGCGGCT	TGAT	caaatgacaaaattgatcat...	1089...	ctatcgcttgag	tcctgggt
D. Per	agttggag	gtaatacatata...	3715...	ttgcgat	cgattcg	cgatcgcttg	-----	TCTGCGGCT	TGAT	caaatgacaaaattgatcat...	1196...	tccgtcttgag	tcctgggt
D. Pse	agttggag	gtaatacatata...	3573...	ttgcgat	cgattcg	cgatcgcttg	-----	TCTGCGGCT	TGAT	caaatgacaaaattgatcat...	1338...	tccgtcttgag	tcctgggt
D. Vir	agttctgag	gtaatttctggc...	3862...	---cgatg	cgcttg	cgatcgcttg	-----	TCTGCGGCT	TGAT	caaatgacaaaattgatcat...	1049...	ctctcgcttgag	tcctgggt
D. Yak	gttttgag	gtaatttctggt...	3534...	--acgatg	cgcttg	cgatcgcttg	-----	CTGCGGCT	TGAT	caaatgacaaaattgatcat...	1378...	cgctctttgag	tcctgggt
		* * * *		*** ** * **** **		*****		*****		** ** *		***** *	

id=26077 gene=FBgn0035802 name=CG33275 segment=chr3L.7598632.7609207.1 type=IN

Figure 47: CS=10.56



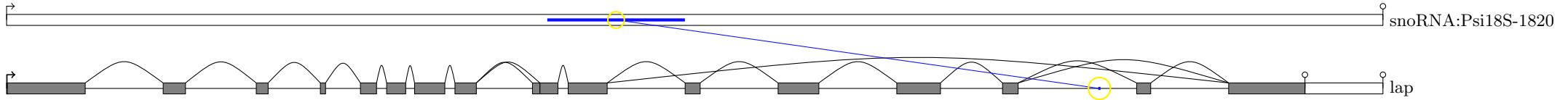
D. Mel	gaagtagt	accccatga	TATTA	GCCGGCAG	gtgcctgcaatcc--ccacggg-----	85...	attcggtcgaca	tttcctct--	
D. Sim	tgcgaagt	accccatga	TATTA	GCCGGCAG	TGCTTGcaatcc--ccacgggcacctgt-..	78...	attcggtcgaca	tttcgtct--	
D. Sec	tgcgaagt	accccatga	TATTA	GCCGGCAG	TGCTTGcaatcc--ccacgggcacctgt-..	78...	attcggtcgaca	tttcgtct--	
D. Ere	tacgaagt	accccatga	TATTA	GCCGGCAG	TGCTTGcaatcc--ccacgggcacctgt-..	78...	attcggtcgaca	tttcctct--	
D. Ana	caaaactt	accccatga	TATTA	GCCGGCAG	TGCTCG-aatct--ccacgcgcatthtgt...	75...	tttcagtcgaca	gcttttta--	
D. Gri	tcttactt	accccatga	TATTA	GCCGGCAG	acgcttgtaatttaaccagc-----	87...	attcagactaca	aaacataa--	
D. Per	tccccatg	accccatga	TATTA	GCCGGCAG	acgcccgtatccc--ccataag-----	84...	tttcagactaca	cttccaag--	
D. Pse	tccccatg	accccatga	TATTA	GCCGGCAG	acgcccgtatccc--ccataag-----	84...	tttcagactaca	cttccaag--	
D. Vir	caaatcgt	accccatga	TATTA	GCCGGCAG	aCGCATGTAtttaaccagctgcgtctgt-..	80...	--tcagaccaca	aattccaact	
D. Yak	tacgaact	accccatga	TATTA	GCCGGCAG	TGCTTgcaatcc--ccacgggcacctg-..	79...	tttcggtcgaca	ttttctcc--	
		*****		** * *		***		** * * ***	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	caatcagg	gtaagtccacat...2570...-----	gggatagcaggctgagtga---	CTGCTg	CGGTTAATG	gcttttgaatgcaaattcaa...2340...ttctcgtttcag	gtgataac		
D. Sim	caatcagg	gtgagtccacat...2604...--	gtgcagaggggatagcaggcTGA---	GTGa	CTGCTg	CGGTTAATGgcttttgaatgcaaattcaa...2299...ttctcgtttcag	gtgataac		
D. Sec	caatcagg	gtgagtccacat...2560...--	gtgcagagaggatagcaggcTGA---	GTGa	CTGCTg	CGGTTAATGgcttttgaatgcaaattcaa...2343...ttctcgtttcag	gtgataac		
D. Ere	caatcagg	gtgagtccacat...2535...--	gcagaggggggatagcaggcTGA---	GTGa	CTGCTg	CGGTTAATGgcttttgaatgcaaattcaa...2368...ttctcgtttcag	gtgataac		
D. Ana	caatcaga	gtaagttcataa...3112...--	agaatgggggatagcaggcTGA---	GTGa	CTGCTg	CGGTTAATGgctttcgaatgcaaattcaa...1791...ttctcattgcag	gtgataac		
D. Gri	caatcagg	gtaagtacacac...2757...cacaacaacacagcagca-	-----	CTGCTg	CGGTTAATG	gcttttgaatgcaaattcaa...2153...ttctatthtcag	gtgataac		
D. Per	taatcagg	gtgagtccaaga...2874...-----	ggagagcaggactgagtga---	CTGCTg	CGGTTAATG	gcttttgaatgcaaattcaa...2036...tctccatttcag	gtgataac		
D. Pse	taatcagg	gtgagtccaaga...2847...-----	ggagagcaggactgagtga---	CTGCTg	CGGTTAATG	gcttttgaatgcaaattcaa...2063...tctccatttcag	gtgataac		
D. Vir	caatcagg	gtaagtacctcc...2540...c-tgacaacgccaacaac-	TGCCGacTGCGa	CTGCTg	CGGTTAATG	gcttttgaatgcaaattcaa...2359...tttattttccag	gtgataat		
D. Yak	caatcagg	gtaagtccatac...2586...--	tcagaggggatagcaggcGGA---	GTGa	CTGCTg	CGGTTAATGgcttttgaatgcaaattcaa...2318...cctctttttcag	gtgataac		
		*****		** * * *		*****		** * * *	

id=131914 gene=FBgn0051481 name=pb segment=chr3R.2552955.2565271.-1 type=IN

Figure 48: CS=10.8



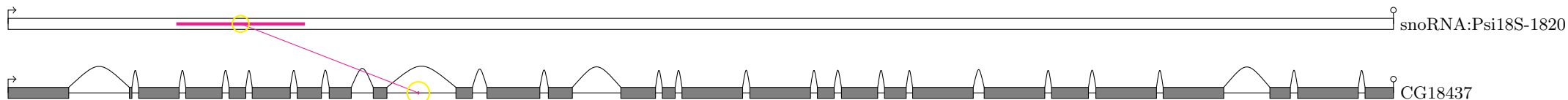
D.Mel	gaagtagt	acccatgatattaagccggcaggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGGGAacagcaaagctgctgatgtgtgatgttgggcagcgcctttatcctgcgctcgacaagaata-ttcggtcgaca
D.Sim	tgccaagt	acccatgatattaagccggcaggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGGGAacagcaaagctgctgatgtgtgatgttgggcagcgccttttcctgcgctcgacaagaata-ttcggtcgaca
D.Sec	tgccaagt	acccatgatattaagccggcaggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGGGAacagcaaagctgctgatgtgtgatgttgggcagcgccttttcctgcgctcgacaagaata-ttcggtcgaca
D.Ere	tacgaagt	acccatgatattaagccggcaggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGGGAacaacaagcttctgatgtgtgatgttgggcagcgccttatactgcgcttgacaagaata-ttcggtcgaca
D.Gri	tcttactt	acccatgatattaagccggcagacgcttgaatc--cagcgggcacc-----	TGTGtGTATG-TTGG-----attgcgctttatcctgcgcatctgacaagaatttattcagactaca
D.Moj	taagctat	acccaagatattaagccggcagtcgcttgaatc--cagcgggcacc-----	TGTGtGTATG-TTGG-----tgttggcccaccatcgctatctgacaagaataatttccagactaca
D.Per	tccccatg	acccatgatattaagccggcagacgcccgtatccc--ccataagcgtctgtgactttgattgggaacagtaaggtgctga	TGTGtGTATG-TTGG-----cagcgccttttccctgcgactcgacaagaata-ttcagactaca
D.Pse	tccccatg	acccatgatattaagccggcagacgcccgtatccc--ccataagcgtctgtgactttgattgggaacagtaaggtgctga	TGTGtGTATG-TTGG-----cagcgccttttccctgcgactcgacaagaata-ttcagactaca
D.Vir	caaatcgt	acccatgatattaagccggcagacgcatgtatc--cagcgggcacc-----	TGTGtGTATG-TTGGAGTTG-----cgcttgcctgtgtatccgacaagaatttccagactaca
D.Yak	tacgaact	acccatgatattaagccggcaggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGGGAacaacaagctgctgatgtgtgatgttgggcagcgcgtgatcttgcgcttgacaagaattt-ttcggtcgaca

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	gtccaatg	gtgagttttgccc...888...--tttgctttatc--tcaacta-TCCCAA	cgCATA	CGCAaaatcg-aa--atcgaaatcgaa...207...-tgcaatacgtag	gcacatgg
D.Sim	gtccaatg	gtgagttttgccc...894...--tttgctttatc--tcaacta-TCCCAA	cgCATA	CGCAaaatcg-aa--atcgaaatcgaa...190...-tgcaatacgtag	gcacatgg
D.Sec	gtccaatg	gtgagttttgccc...886...--tttgctttatc--tcaacta-TCCCAA	cgCATA	CGCAaaatcg-aa--atcgaaatcgt...188...-tgcaatacgtag	gcacatgg
D.Ere	gtccaatg	gtgagttttgccc...880...--tttgctttatc--tcaacta-TCCCAA	cgCATA	CGCAaaatcgaaa--atcgaaatcg...181...-tgcaatacgtag	gcacatgg
D.Gri	gtccaatg	gtgagttatgac...1047...--tgctttatatt-tcaacta--TCCAAC	gcATACCGCA	atatacaaaatcacaata--...193...atgtat-acctag	gcacatgg
D.Moj	gtccaatg	gtgagttatgac...972...--gctttatatt-tcaacta--CCAAC	gcATACCGCA	atatacaaaatcacaata--...253...atgtat-acatag	gcacatgg
D.Per	gtccaatg	gtgagttatgac...1005...--tttatatattctcaactatC	CCAACgc	ATACCGCAaaaaaaca--actaaaatcg...97...atatta-atatag	gcacatgg
D.Pse	gtccaatg	gtgagttatgac...1014...--tttatatattctcaactatC	CCAACgc	ATACCGCAaaaaaaca--actaaaatcg...97...atatta-atatag	gcacatgg
D.Vir	gtccaatg	gtgagttttgac...997...ttatgttgcctttatatt-t--CAAC	taTCCAAC	gcATACCGCAatattgaaacatatcaaaa--...229...atgtat-ataag	gcacatgg
D.Yak	gtccaatg	gtgagttttgccc...890...--tttgctttatc--tcaacta-TCCCAA	cgCATA	CGCAaaatcgaaa--aacgttaaccg...2427...-tgcaacacgtag	gcacatgg

id=112207 gene=FBgn0086372 name=lap segment=chr3R.3022116.3023291.1 type=IN

Figure 49: CS=10.8



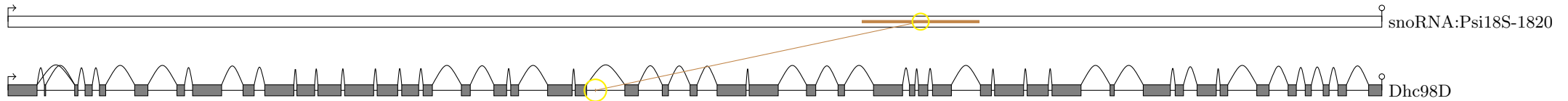
D.Mel	gaagtagt	accccatgaTATTAAGCcGGCAG	gtgcctgcaatccccacggg...	85...	attcggtcgaca	tttcctct--
D.Sim	tgcgaaagt	accccatgaTATTAAGCcGGCAG	gtgcttgcaatccccacggg...	85...	attcggtcgaca	tttcgtct--
D.Sec	tgcgaaagt	accccatgaTATTAAGCcGGCAG	gtgcttgcaatccccacggg...	85...	attcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatgaTATTAAGCcGGCAG	gtgcttgcaatccccacggg...	85...	attcggtcgaca	tttcctct--
D.Gri	tcttactt	accccatgaTATTAAGCcGGCAG	acgcttgtaatttaaccagc...	87...	attcagactaca	aaacataa--
D.Moj	taagctat	acccaagaTATTAAGCcGGCAG	cgcttgatatttaaccagcg...	86...	tttcagacgaca	tattctat--
D.Per	tccccatg	accccatgaTATTAAGCcGGCAG	acgcccgtatccccataag...	84...	tttcagactaca	cttccaag--
D.Pse	tccccatg	accccatgaTATTAAGCcGGCAG	acgcccgtataccccataag...	84...	tttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatgaTATTAAGCcGGCAG	acgcatgtatttttaaccagc...	89...	--tcagaccaca	aattccaact
D.Yak	tacgaact	accccatgaTATTAAGCcGGCAG	gtgcttgcaatccccacggg...	85...	tttcggtcgaca	ttttctcc--
		*****	*****	* * *	* * * * *	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	agtctcag	gtaaatctaaat...213...	-tttctccgatgaacaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtctac...	278...	aagattttacag	atacgttg
D.Sim	agtctcag	gtaaatctaaat...204...	-tttctccgatgaacaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtctac...	268...	aagattttacag	atacgttg
D.Sec	agtctcag	gtaaatctaaat...204...	-tttctccgatgaacaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtctac...	267...	aagattttacag	atacattg
D.Ere	agtctcag	gtaaatcagcat...191...	-tttctccatgaacaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtctac...	252...	aagattttacag	atacgttg
D.Gri	agcttaag	gtaagcaaatcc...155...	-tttatgaactaaacaaccag	CTGTCTGCTTGATA	gcggggtgagttttggtctac...	476...	cagatcttacag	atatgttg
D.Moj	agcctaag	gtaagcfaatgg...115...	-tttatgaactgaacaacca	GCTGTCTGCTTGATA	gcggggtgagttttggtctag...	430...	cagatcttacag	atacgttg
D.Per	agtctcag	gtaactacagca...197...	-tttctcttatgatcaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtccac...	278...	aagattttacag	atacgttg
D.Pse	agtctcag	gtaactacagca...199...	-tttctcttatgatcaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtccac...	280...	aagattttacag	atacgttg
D.Vir	agcttaag	gtaactacaatt...156...	-tttatgaactgaacaaccag	CTGTCTGCTTGATA	gcggggtgagttttggtctag...	512...	cagatcttacag	atacgttg
D.Yak	agtctcag	gtaaatatatat...217...	-cttctccatgaacaaccag	CTGTCTGCTTGATA	gcggggtgagtttcggtctac...	289...	aagattttacag	atacgttg
		** * **	****	** * * * *	*****	* * *	**** * * * *	*** * *

id=107921 gene=FBgn0039536 name=CG18437 segment=chr3R.23492262.23492830.1 type=IN

Figure 50: CS=11.8



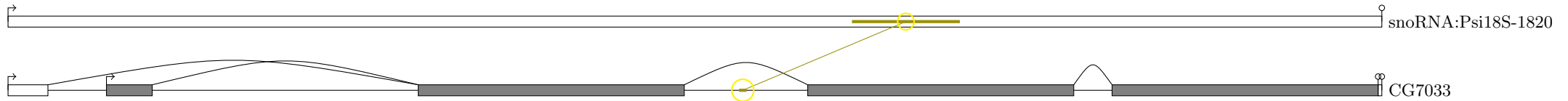
D.Mel	gaagtagt	accccatgatat...47...tgggaacagcaaagctgctg	ATGTGTGTATGTT	gggcagcgc	---ctcttatcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcctct--
D.Sim	tgcaagt	accccatgatat...47...tgggaacagcaaagctgctg	ATGTGTGTATGTT	gggcagcgc	---ctctttcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--
D.Sec	tgcaagt	accccatgatat...47...tgggaacagcaaagctgctg	ATGTGTGTATGTT	gggcagcgc	---ctctttcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatgatat...47...tgggaacaacaagcttctg	ATGTGTGTATGTT	gggcagcgc	---ctcttactg	cgcgcttgacaaagaata-ttcggtcgaca	tttcctct--
D.Gri	tcttactt	accccatgatat...49...tgggaacagtaaagccgctg	ATGTGTGTATGTT	ggaattg	---cgctttatc	tgcatctgacaaagatttattcagactaca	aaacataa--
D.Moj	taagctat	accccaagat...49...tgggaacagaaatgccgctg	ATGTGTGTATGTT	ggTGTG	---cgccaccat	gctatctgacaaagtaattttcagacgaca	tattctat--
D.Per	tccccatg	accccatgatat...47...tgggaacagtaaaggtgctg	ATGTGTGTATGTT	gggcagcgc	---ctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Pse	tccccatg	accccatgatat...47...tgggaacagtaaaggtgctg	ATGTGTGTATGTT	gggcagcgc	---ctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatgatat...49...tgggaacagtaacgctgctg	ATGTGTGTATGTT	ggagttg	---cgcttctg	tgtatccgacaaagttattttcagaccaca	aattccaact
D.Wil	atcttctt	accccatgatat...49...tgggaacatataagtcgctg	ATGTGTGTATGTT	aaacagcgt	attctttacc	ctgcgcttgacaaagtaa-tttcagaccaca	t-ttcaacc-
D.Yak	tacgaact	accccatgatat...47...tgggaacaacaagctgctg	ATGTGTGTATGTT	gggcagcgc	---ctgtgatct	tgcgcttgacaaagattt-ttcggtcgaca	ttttctcc--
		*****	*****	**	*****	**	*****

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	atcgcagg	gtgagtaatccg...106...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgctattgtgt-...809...cttcattgcag	atcatggt
D.Sim	atcgcagg	gtgagtaatccg...106...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgctattgtgt-...808...cttcattgcag	atcatggt
D.Sec	atcgcagg	gtgagtaatccg...106...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgctattgtgt-...839...cttcattgcag	atcatggt
D.Ere	atcgcagg	gtgagtaatccg...106...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgctattgtgt-...830...cttcattgcag	atcatggt
D.Gri	atcgcagg	gttagtatttga...108...-----cgacgccttacttaacggta	AACATAaTACGCAT	gcaaacgaccact-ttgcgta...792...tttcattgcag	atcatggt
D.Moj	atcgcagg	gtaagtatttgc...153...tatggcagcgccttacttaa	CGGTA AACATAaTACGCAT	gcaaacgaccact-ttgcgta...877...cttcattgcag	atcatggt
D.Per	atcgaagg	gtgagagtctgg...178...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgct-ttctata...895...tttcattgcag	atcatggt
D.Pse	atcgaagg	gtgagagtctgg...178...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgct-ttctata...784...tttcattgcag	atcatggt
D.Vir	accgcaga	gttagtatttgc...114...-----cgacgccttacttaacggta	AACATAaTACGCAT	gcaaacgaccact-ttgcgta...777...cttcactgcag	atcatggt
D.Wil	atcgtcgg	gtaagatgtgga...211...-----cgacgccttacttaacggta	AACATAaTACGCAT	gcaaacgaccct-ttgtgta...693...tttcattgcag	atcatggt
D.Yak	atcgcagg	gtgagtaatccg...109...-----cgactccttacttaacggta	AACATAaTACGCAT	gcaaacgactgctattgtgt-...866...cttcattgcag	atcatggt
		** * *	** * *	****	*****

id=123403 gene=FBgn0013813 name=Dhc98D segment=chr3R.24325850.24326842.1 type=IN

Figure 51: CS=10.56



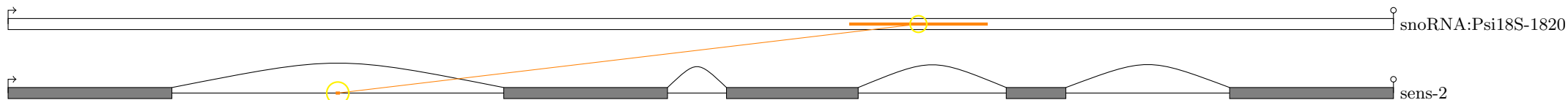
D. Mel	gaagtagt	accccatgatat...46...-----ttgggaacagcaaagctgct	GATGTGTGTATG	ttgggcag---	cgctctttatcctg	cgctcgctcgaca	aaagaata-ttcggtcgaca	tttcctct--
D. Sec	tgcaagt	accccatgatat...46...-----ttgggaacagcaaagctgct	GATGTGTGTATG	ttgggcag---	cgctctttatcctg	cgctcgctcgaca	aaagaata-ttcggtcgaca	tttcgtct--
D. Ere	tacgaagt	accccatgatat...46...-----ttgggaacaacaaagcttct	GATGTGTGTATG	ttgggcag---	cgctcttatactg	cgctcgctcgaca	aaagaata-ttcggtcgaca	tttcctct--
D. Gri	tcttactt	accccatgatat...48...-----ctgggaacagtaaagccgct	GATGTGTGTATG	tg GAATTGCG ---	ctttatctg	cgcatctgaca	aaagatttattcagactaca	aaacataa--
D. Moj	taagctat	acccaagatat...48...-----ctgggaacagaaatgccgct	GATGTGTGTATG	TGGT ---	gttgcgccaccat	cgatctgaca	aaagtaattttcagacgaca	tattctat--
D. Per	tccccatg	accccatgatat...46...-----ttgggaacagtaaagtgct	GATGTGTGTATG	ttgggcag---	cgctctt-tcctg	cgactcgaca	aaagaaat-ttcagactaca	cttccaag--
D. Pse	tccccatg	accccatgatat...46...-----ttgggaacagtaaagtgct	GATGTGTGTATG	ttgggcag---	cgctctt-tcctg	cgactcgaca	aaagaaat-ttcagactaca	cttccaag--
D. Vir	caaatcgt	accccatgatat...48...-----ctgggaacagtaaagctgct	GATGTGTGTATG	tg GAGT ---	tgcgcttctgt	tgatccgaca	aaagttattttcagaccaca	aattccaact
D. Wil	atctcttt	accccatgatat...42...ctatgactgggaacattaaa	GTGG	GATGTGTGTATG	ttaaacagcgt	tattcttacc	ctgcttcgaca	aaagtaa-tttcagaccaca
D. Yak	tacgaact	accccatgatat...46...-----ttgggaacaacaaagctgct	GATGTGTGTATG	ttgggcag---	cgctgtgatct	gctgctcgctcgaca	aaagattt-ttcggtcgaca	ttttctcc--
		***** **						

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	cacagcgt	gtaagtaatgtt...63...----gagctatgtggatttgactt	-----	CATAtCACAGcCATT	ttgacgagttt	gttggcag-----	...90...tctccatcgag	attgagaa
D. Sec	cacagcgt	gtaagtaatgtt...63...----gagctatgtggatttgactt	-----	CATAtCACAGcCATT	ttgacgagttt	gttggcag-----	...99...tctccatcgag	attgagaa
D. Ere	cacagcgt	gtaagtgatatt...77...----gaactatgtggatttgactt	-----	CATAtCACAGcCATT	ttgacgagttt	gttggcag-----	...90...tctccaccgag	attgagaa
D. Gri	ctcagcgc	gtaagtgatatt...119...--gtgagctatgttggcag	---	TGTAATTCATAtCACAGcCATT	ttgacgagttt	gatgtggca-----	...224...tcgttctcag	attgaaaa
D. Moj	cacagcgt	gtaagtgaagc...98...ctgtgagctatgtttatgag	-----	ATTAtCATAtCACAGcCATT	ttgacgagttt	gatgtggca-----	...332...ttattatacag	attgagaa
D. Per	cacagcgc	gtaagtataaat...82...----gagctatgtgttttgatct	-----	CATAtCACAGcCATT	ttgacgagttt	gatgtggca-----	...198...acctctcttag	attgaaaa
D. Pse	cacagcgc	gtgagtataaat...82...----gagctatgtgttttgatct	-----	CATAtCACAGcCATT	ttgacgagttt	gatgtggca-----	...198...acctctcttag	attgaaaa
D. Vir	cacagcgc	gtaagtaatccc...107...----gctatgttgttcattggcc	ATT	CATAtCACAGcCATT	ttgacgagttt	gatgtggca-----	...908...catttcgtcag	attgaaaa
D. Wil	cacagcgt	gtaagtattca...91...----atggttaaccggtcagaaatt	-----	CATAtCACAGcCATT	TGAC	gagttcgatggc	atacga...82...atccttcttag	attgaaaa
D. Yak	cacagcgt	gtaagtgatatt...74...----gagctatgtggatttgactt	-----	CATAtCACAGcCATT	ttgacgagttt	gttggcag-----	...91...tctccaccgag	attgagaa
		* **						

id=85366 gene=FBgn0030086 name=CG7033 segment=chrX.8985211.8985442.1 type=IN

Figure 52: CS=11.8



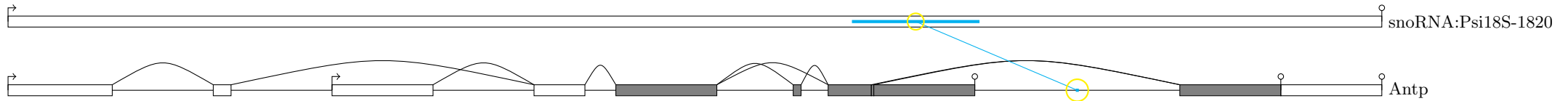
D.Mel	gaagtagt	accccatgatat...45...-----attgggaacagcaaagctgc	TGATGTGTGta	TGTT	-gggcagcg---	ctcttatcctg	cgcgctcg	acaaagaata	-ttcggtcgaca	tttcctct--
D.Sec	tgcgaaagt	accccatgatat...45...-----attgggaacagcaaagctgc	TGATGTGTGta	TGTT	-gggcagcg---	ctcttttctg	cgcgctcg	acaaagaata	-ttcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatgatat...45...-----attgggaacaacaaagcttc	TGATGTGTGta	TGTT	-gggcagcg---	ctcttatactg	cgcgcttg	acaaagaata	-ttcggtcgaca	tttcctct--
D.Gri	tcttactt	accccatgatat...47...-----actgggaacagtaaaagccgc	TGATGTGTGta	TGTTg	GAAT--tg---	cgctttatctg	cgcatctg	acaaagattt	ttcagactaca	aaacataa--
D.Moj	taagctat	accccaagatat...47...-----actgggaacagaaatgccgc	TGATGTGTGta	TGTTGGT	Gttg	cg---	ccaccatgc	gtatctg	acaaagtaattt	ttcagactaca
D.Per	tccccatg	accccatgatat...39...actttgattgggaacagtaa	AGGTGc	TGATGTGTGta	TGTT	-gggcagcg---	ctctt-tcctg	cgcaactg	acaaagaat-tt	cagactaca
D.Pse	tccccatg	accccatgatat...39...actttgattgggaacagtaa	AGGTGc	TGATGTGTGta	TGTT	-gggcagcg---	ctctt-tcctg	cgcaactg	acaaagaat-tt	cagactaca
D.Vir	caaatcgt	accccatgatat...47...-----actgggaacagtaaacgcctgc	TGATGTGTGta	TGTTg	GAGT	tgcg---	ccttgctgt	gtatccg	acaaagttattt	ttcagaccaca
D.Wil	atcttctt	accccatgatat...47...-----actgggaacattaaagctgc	TGATGTGTGta	TGTT	-aaacagc	gtattctt	taccctg	cgcggttcg	acaaagtaa-tt	ttcagaccaca
D.Yak	tacgaact	accccatgatat...45...-----attgggaacaacaaagctgc	TGATGTGTGta	TGTT	-gggcagcg---	ctgtgatctt	g	cgcgcttg	acaaagattt-tt	cggtcgaca
		*****	*****	*	*****	*	*****	***	* * *	***

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	ctccgacg	gtaagccggaat...4064...-----ccgaacagatgttctattta	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...847...g	ttatattacag	atgcctcg
D.Sec	ctccgacg	gtaagccggaat...4043...-----ccgaacagatgttctattta	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...868...t	ctatattacag	atgcatcg
D.Ere	ctccgacg	gtaagccggaat...4061...-----ccgaacagatgttctattta	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...850...t	caacattacag	atgcctcg
D.Gri	tcccgacg	gtaagcaagaaa...3997...-gtggaccgaacagatgttct	ATTTa	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...909...t	ctctttcgag
D.Moj	taccgacg	gtaagtcaagag...3931...tgccgaccgaacagatgttct	TATTTa	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...974...t	ctcccttcag
D.Per	tcccgacg	gtaagtactcgg...4198...-----ccgaacagatgttctattta	AACGCACAT	TATTA	TATTT	catttcgacagggc	gatacga...707...t	ctttctccag	atgcctct
D.Pse	tcccgacg	gtaagtactcgg...4210...-----ccgaacagatgttctattta	AACGCACAT	TATTA	TATTT	catttcgacagggc	gatacga...695...t	ctttctccag	atgcctct
D.Vir	caccgacg	gtaagctaaaga...4068...-gcccaccgaacagatgttct	ATTTa	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...838...t	ctatattgtag
D.Wil	tgccgacg	gtaagctaacac...3931...-----ccgaacagatgttctattta	AACGCACAT	TATTA	Attatttcatttcgacgggc	-----	...980...t	ctctgttag	attctctc
D.Yak	ctccgacg	gtaagccggaac...3987...-----ccgaacagatgttctattta	AACGCACAT	TATTA	Attatttcatttcgacagggc	-----	...924...t	ctattttacag	atgcctcg
		*****	*****	*	*****	*	*****	*	**

id=114729 gene=FBgn0051632 name=sens-2 segment=chr2L.6823060.6831169.1 type=IN

Figure 53: CS=10.8



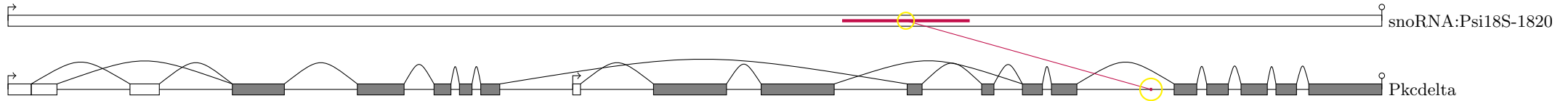
D.Mel	gaagtagt	accccatgatat...46...ttgggaacagcaaaagctgct	GATGTgTGTATGTTGGG	---	cagcgctcttatcctgcgctcgacaaaagaata-ttcggtcgaca	tttcctct--
D.Sim	tgcgaaagt	accccatgatat...46...ttgggaacagcaaaagctgct	GATGTgTGTATGTTGGG	---	cagcgctcttttctgcgctcgacaaaagaata-ttcggtcgaca	tttcgtct--
D.Sec	tgcgaaagt	accccatgatat...46...ttgggaacagcaaaagctgct	GATGTgTGTATGTTGGG	---	cagcgctcttttctgcgctcgacaaaagaata-ttcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatgatat...46...ttgggaacaacaaagcttct	GATGTgTGTATGTTGGG	---	cagcgctcttatactgcgcttgacaaaagaata-ttcggtcgaca	tttcctct--
D.Gri	tcttactt	accccatgatat...48...ctgggaacagtaaaagccgct	GATGTgTGTATGTTGGAATT	---	gcgcttta--tctgcgcatctgacaaaagattatcagactaca	aaacataa--
D.Moj	taagctat	accccaagatat...48...ctgggaacagaaatgccgct	GATGTgTGTATGTTGG	---	tgttgcgccccatcgctatctgacaaaagtaattttcagacgaca	tattctat--
D.Per	tccccatg	accccatgatat...46...ttgggaacagtaaaaggtgct	GATGTgTGTATGTTGGG	---	cagcgctctt-tcctgcgactcgacaaaagaat-ttcagactaca	cttccaag--
D.Pse	tccccatg	accccatgatat...46...ttgggaacagtaaaaggtgct	GATGTgTGTATGTTGGG	---	cagcgctctt-tcctgcgactcgacaaaagaat-ttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatgatat...48...ctgggaacagtaaacgctgct	GATGTgTGTATGTTGAGTT	---	gcgcttgccttctgtatctcgacaaaagttatcagaccaca	aattccaact
D.Wil	atctcttt	accccatgatat...48...ctgggaacattaaagctgct	GATGTgTGTATGTTAAA	---	cagcgcttctttacccctgcgcttcgacaaaagtaa-tttcagaccaca	t-ttcaacc-
D.Yak	tacgaact	accccatgatat...46...ttgggaacaacaaagctgct	GATGTgTGTATGTTGGG	---	cagcgctgtgatcttgcgcttgacaaaagatt-ttcggtcgaca	ttttctcc--
		***** **			***** **	*** * **

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	aagaactc	gcctcaaaaaat...4627...-----cctgttttttctctttttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...279...tggaaaccaacag	aacgcaaa
D.Sim	aagaacgc	gcctcaaaaaat...4637...-----ggccctgttttttctctttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...269...tggaaaccaacag	aacgcaaa
D.Sec	aataacgc	gcctcaaaaaat...4643...-----ggccctgttttctctctttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...263...tggaaaccaacag	aacgcaaa
D.Ere	aagaacgc	gccttaaaaaaa...4637...-----aggctctgtttttt-tctttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...269...tggatccaacag	aacgcaaa
D.Gri	cattgtgc	gcctacaacaaa...4565...-----ccctatcggagcctgttgg	GATTTTGACAagTACAaATATC	tgaattcggttaaggttgct...338...tggaaaccaacag	agcgcaaa
D.Moj	aattgtgc	gcctacaataa...4558...ggtg---ctcgttgggtttctt	TTTGACAagTACAaATATC	tgaattcggttaaggttgct...349...cacaaccaacag	agcgcaaa
D.Per	aagaacgc	gcctaaaaagca...4610...-----ctcttgggttcggttctttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...296...tgggaccaacag	aacgcaaa
D.Pse	aagaacgc	gcctaaaaagca...4601...-----ctcttgggttcggttctttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...305...tggaaaccaacag	aacgcaaa
D.Vir	aattgtgc	gcctacaacaaa...4579...ggcccggcctgggtctgttg	GGTTTgTACAagTACAaATATC	tgaattcggttaaggttgct...323...tggaaaccaacag	agcgcaaa
D.Wil	gagaacgc	gcctactagcca...4566...ggtgaagtcatgttgggtt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...340...gacaaccaacag	aacgtaaa
D.Yak	aagaacgc	gcctcaaaaaat...4643...-----gttttttttttctcttttt	TTTGACAagTACAaATATC	cgaattcggttaaggttgct...263...tggaaaccaacag	aacgcaaa
		* * **** *		***** * ***** **	***** * ** **

id=131050 gene=FBgn0260642 name=Antp segment=chr3R.2724261.2732739.-1 type=IN

Figure 54: CS=10.56



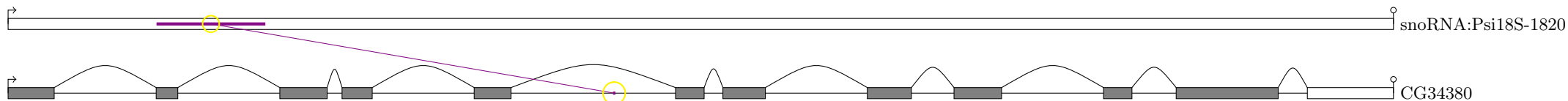
D. Mel	gaagtagt	acccatgatat...44...-----gattgggaacagcaaagctg	CTGATgtGTGTATGTtGGGC	-agcg---ctcttatctcgcgctcgacaaaga-atattcggtcgaca	tttcctct--
D. Sim	tgcgaaagt	acccatgatat...44...-----gattgggaacagcaaagctg	CTGATgtGTGTATGTtGGGC	-agcg---ctcttttctcgcgctcgacaaaga-atattcggtcgaca	tttcgtct--
D. Sec	tgcgaaagt	acccatgatat...44...-----gattgggaacagcaaagctg	CTGATgtGTGTATGTtGGGC	-agcg---ctcttttctcgcgctcgacaaaga-atattcggtcgaca	tttcgtct--
D. Ere	tacgaagt	acccatgatat...41...-----tatgattgggaacaacaaag	CTTCTGATgtGTGTATGTtGGGC	-agcg---ctcttatactcgcgctcgacaaaga-atattcggtcgaca	tttcctct--
D. Gri	tcttactt	acccatgatat...46...-----gactgggaacagtaaagcgg	CTGATgtGTGTATGTtGGGC	-agcg---ctcttatactcgcgctcgacaaaga-atattcggtcgaca	tttcctct--
D. Moj	taagctat	acccaagatat...37...tgtgactatgactgggaaca	GAAATGCCgCTGATgtGTGTATGTtGGTG	ttcg---cccacatcgcgctcgacaaaga-atattcggtcgaca	tattctat--
D. Pse	tcccatg	acccatgatat...44...-----gattgggaacagtaaagctg	CTGATgtGTGTATGTtGGGC	-agcg---ctctt-tcctcgcgctcgacaaaga-aatttcagactaca	cttccaag--
D. Vir	caaatcgt	acccatgatat...46...-----gactgggaacagtaaagctg	CTGATgtGTGTATGTtGGTG	ttcg---ccttgctgtgatccgacaaagtattttcagaccaca	aattccaact
D. Wil	atttcttt	acccatgatat...46...-----gactgggaacattaaagctg	CTGATgtGTGTATGTtGGTG	ttcg---ccttgctgtgatccgacaaagtattttcagaccaca	t-ttcaacc-
		***** **	** ***** ** *	***** ** *	***** ** * **

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	aaacggag	gtaagttgaata...562...-----tctgcatctgcaaatgcaac	GTCTtGCATtACACcgATTAG	aaggtattttaattatttat-----...125...ttcaaccgcag	agccactt
D. Sim	aaacggag	gtaagctaaata...546...-----tctgcatctgcaaatgcaac	GTCTtGCATtACACcgATTAG	aaggtattttaattatttat-----...120...tttctgcccag	agccactt
D. Sec	aaacggag	gtaagctaaata...553...-----tctgcatctgcaaatgcaac	GTCTtGCATtACACcgATTAG	aaggtattttaattatttat-----...117...tattttccgcag	agccactt
D. Ere	aaacggag	gtgagttgaaga...577...-----tctgcatctgcaactgcaac	GTCTtGCATtACACcgATTAG	aaaggtattttaattatttatgac-----...136...atcctaaccgcag	agccactt
D. Gri	aaacggag	gtgagttattca...403...-----aaatttagttttcgttgctt	-----GCATtACACcgATTAG	aaggtattttaattatttat-----...423...gacctttgag	agtcactt
D. Moj	agaccgag	gtgagtagcgc...801...agcaacaataagttttctt	TGTTtGCATtACACcgATTAG	aaGGTATTTTtattatttatgactttgagg...287...tatctcccgcag	agtcactt
D. Pse	aaacggag	gtaagttgcct...693...-----gtgttgcatcggcgtctctt	-----GCATtACACcgATTAG	aaggtattttaattatttat-----...103...catgcttttcag	agccattt
D. Vir	aaacggag	gtgagtttctt...395...-----gaaaacaataagttttctt	-----GCTTGCATtACACcgATTAG	aaggtattttaattatttat-----...501...ctttctttgcag	agccactt
D. Wil	aaacggag	gtaagaacaaaa...357...-----ctttttgctctcgttgctt	-----GCATtACACcgATTAG	aaggtattttaattatttat-----...481...ttttcccag	agccattt
	** ** **	** **	*	*****	** ** **

id=65904 gene=FBgn0259680 name=Pkcdelta segment=chrX.12345480.12346252.1 type=IN

Figure 55: CS=11.34



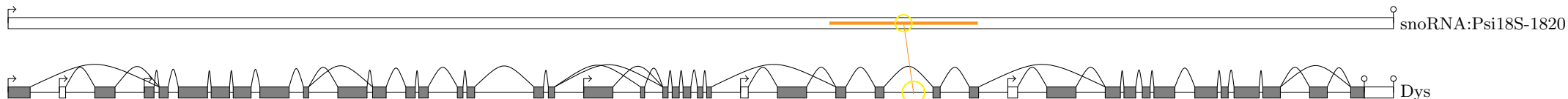
D. Mel	gaagtagt	accccaTGATATTAAGCCGg	caggtgcttgcaatccccca...	89...	attcggtcgaca	tttcctct--
D. Sim	tgcgaagt	accccaTGATATTAAGCCGg	caggtgcttgcaatccccca...	89...	attcggtcgaca	tttcgtct--
D. Ere	tacgaagt	accccaTGATATTAAGCCGg	caggtgcttgcaatccccca...	89...	attcggtcgaca	tttcctct--
D. Ana	caaaactt	accccaTGATATTAAGCCGg	cagatgctcgaatctccac...	86...	tttcagtcgaca	gcttttta--
D. Gri	tcttactt	accccaTGATATTAAGCCGg	cagacgcttgtaatttaac...	91...	attcagactaca	aaacataa--
D. Per	tccccatg	accccatGATATTAAGCCGg	cagacgcccgtatccccca...	88...	tttcagactaca	cttccaag--
D. Pse	tccccatg	accccaTGATATTAAGCCGg	cagacgcccgtatccccca...	88...	tttcagactaca	cttccaag--
D. Vir	caaatcgt	accccaTGATATTAAGCCGg	cagacgcatgtattttaac...	93...	-tcagaccaca	aattccaact
D. Wil	atttcttt	accccaTGATATTAAGCCGg	caggtgctcgaatttaac...	94...	tttcagaccac-	-atttcaact
D. Yak	tacgaact	accccaTGATATTAAGCCGg	caggtgcttgcaatccccca...	89...	tttcggtcgaca	ttttctcc--
		***** ** * *				** * * *

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	cggaaagg	gtgagtaactga...	1390...	--caaggcagcggc--	agaaaaa	TGGCTTAaATGTCG	ca-ttggccattatttctagt...	269...	tattcatttcag	gttatgaa	
D. Sim	cggaaagg	gtgagtaactga...	1709...	--caaggcagcggc--	agaaaaa	TGGCTTAaATGTCG	ca-ttggccattatttctagt...	272...	tattcatttcag	gttatgaa	
D. Ere	cggcaagg	gtgagtaactga...	1243...	-acaaggcagcggc-	agaaaaa	TGGCTTAaATGTCG	ca-ttggccattatttctagt...	290...	tattcatttcag	gttatgaa	
D. Ana	cggaaagg	gtaagtgtttgt...	1249...	--caaaagccgagc-	ggaaaaa	TGGCTTAaATGTCG	ca-ttggccataatttctagt...	255...	tattcgtttcag	gatatgaa	
D. Gri	tggcaaag	gtaagtgctaaa...	1361...	..acaaaaacagt---	gaaagaaa	TGGCTTAaATGTCG	cg-ttggccataatttctagt...	277...	ttttctgcccag	gctacgaa	
D. Per	tggaaagg	gtaagtggaaga...	1476...	----tagtggtatccacaaa	caaa	TGGCTTAaATGTC	-ccttggcctctaataatg-	223...	ttttccgtacag	gttatgaa	
D. Pse	tggaaagg	gtaagtggaaga...	1860...	----tagtggtatccagaa	agaaa	TGGCTTAaATGTCG	ca-ttggccataatttctagt...	216...	tttccgtacag	gttatgaa	
D. Vir	tggcaagg	gtaagtgcaaat...	1534...	..aacaaaacagt---	gaaagaaa	TGGCTTAaATGTCG	cg-ttggccataatttctag-	302...	tttttttttag	gctacgaa	
D. Wil	tggtaaag	gtaagtgcaaca...	1389...	..aacaagcggta---	gaaagaaa	TGGCTTAaATGTCG	ca-ttggccataatttctagt...	228...	ttttgttccag	gttatgaa	
D. Yak	cggaaagg	gtgagtaccatg...	1388...	--caaggcagcggc-	agaaagaa	TGGCTTAaATGTCG	ca-ttggccattatttctagt...	314...	tattcatttcag	gttatgaa	
		** ** *		** ** *		* ** * * * * *		* * * *		** ** ** *	

id=105318 gene=FBgn0085409 name=CG34380 segment=chr2L.6201442.6203178.1 type=IN

Figure 56: CS=10.8



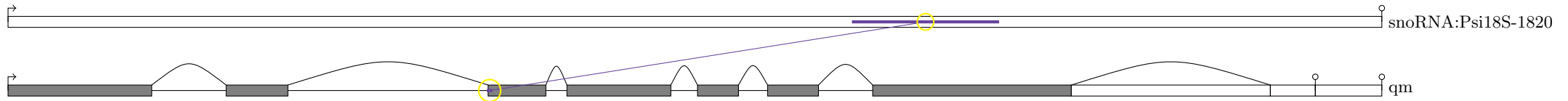
D. Mel	gaagtagt	accccatgatat...43...tgattgggaacagcaaagct	GCTGA	GTGTG	ATGTT	GGCAG	---	cgctcttatcctg	cgcgctcgaca	aaagaata-ttcggtcgaca	tttcctct--	
D. Sim	tgcgaaagt	accccatgatat...43...tgattgggaacagcaaagct	GCTGA	GTGTG	ATGTT	GGCAG	---	cgctcttttctg	cgcgctcgaca	aaagaata-ttcggtcgaca	tttcgtct--	
D. Sec	tgcgaaagt	accccatgatat...43...tgattgggaacagcaaagct	GCTGA	GTGTG	ATGTT	GGCAG	---	cgctcttttctg	cgcgctcgaca	aaagaata-ttcggtcgaca	tttcgtct--	
D. Gri	tcttactt	accccatgatat...45...tgactgggaacagtaaaagc	GCTGAT	GTGTG	TATGTT	---	ggaattg	cgctttatctg	cgcatctgaca	aaagatttattcagactaca	aaacataa--	
D. Moj	taagctat	accccaagatat...45...tgactgggaacagaaatgcc	GCTGA	GTGTG	ATGTTGGTGTG	---	cgccaccat	cggtatctgaca	aaagtaatttccagacgaca	tattctat--		
D. Per	tccccatg	accccatgatat...43...tgattgggaacagtaaaagc	GCTGA	GTGTG	ATGTTGGCAG	---	cgctctt-tcctg	cgcaactcgaca	aaagaat-ttcagactaca	cttccaag--		
D. Pse	tccccatg	accccatgatat...43...tgattgggaacagtaaaagc	GCTGA	GTGTG	ATGTTGGCAG	---	cgctctt-tcctg	cgcaactcgaca	aaagaat-ttcagactaca	cttccaag--		
D. Vir	caaatcgt	accccatgatat...45...tgactgggaacagtaacgct	GCTGA	GTGTG	ATGTT	---	ggagttg	cgcttctgtg	tatccgaca	aaagttatttccagaccaca	aattccaact	
D. Wil	atttcttt	accccatgatat...45...tgactgggaacattaaagc	GCTGAT	GTGTG	TATGTT	---	aaacagc	gtattctt	taccctg	cggttgcaca	aaagtaa-tttcagaccaca	t-ttcaacc-
D. Yak	tacgaact	accccatgatat...43...tgattgggaacaacaaagc	GCTGA	GTGTG	ATGTTGGCAG	cGCTGTGAT	CTTG	---	cgcgcttgaca	aaagattt-ttcggtcgaca	ttttctcc--	
		*****	*****	***	*****	**	*	*****	*****	***	* * **	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	aacagttg	gtaagtcctggc...1196...-----gctgcccactaagttacggt	CTGCCg	AACAT	TACAT	TCGGC	---	ctgaaga-ttttattg	ccag--...300...ttccactg	gacgatca		
D. Sim	aacagttg	gtaagtcctggc...1195...-----gctgcccactaagttacggt	CTGCCg	AACAT	TACAT	TCGGC	---	ctgaaga-ttttattg	ccag--...286...ttccactg	gacgatca		
D. Sec	aacagttg	gtaagttctggc...1155...-----gctgcccactaagttacggt	CTGCCg	AACAT	TACAT	TCGGC	---	ctgaaga-ttttattg	ccag--...290...ttccactg	gacgatca		
D. Gri	aacagttg	gtaagtttaagt...3041...-----cactaagttacggtctgccc	GACAT	TACAT	TCGGC	---	ttgtgtagt	gtggagtatgg--...474...ctccgctg	gacgatca			
D. Moj	aacagctt	gtaagttcatcc...2819...-----tattgctgcccactaagttacggt	CGGTct	GCCGg	ACAT	TACAT	TCGGC	tgctg	cgccatggagtg-----...493...ttgtgctg	gacgatca		
D. Per	aacagttg	gtaagcaaatca...1997...-----gctgcccactaagttacggt	CTGCCg	AACAT	TACAT	TCGGC	---	ttgaagatttttattg	cca---...240...cgtgtgtg	gacgatca		
D. Pse	aacagttg	gtaagcaaatca...1905...-----gctgcccactaagttacggt	CTGCCg	AACAT	TACAT	TCGGC	---	ttgaagatttttattg	cca---...242...cgtgtgtg	gacgatca		
D. Vir	agcagttg	gtaagttgaacc...2215...-----cactaagttacggtctgccc	GACAT	TACAT	TCGGC	---	ttgaggagt	gtggaccaag--...460...ctttgctg	gacgatca			
D. Wil	agcagttg	gtaagttgggtg...1437...-----cactaagttacggtctgccc	GACAT	TACAT	TCGGC	---	ttgta---	tttttccccttcc...282...tttctttaag	gacgatca			
D. Yak	aacagttg	gtaagtcctggc...1139...aatctactattg	cctgccac	TAAGTTACGGTCT	GCCGg	AACAT	TACAT	TCGGC	---	ctgaaga-ttttattg	ccag--...282...ttccactg	gacgatca
	* * * *	*****	*****	*****	*****	*****	*	*		** **		

id=97324 gene=FBgn0260003 name=Dys segment=chr3R.15384287.15385869.1 type=IN

Figure 57: CS=10.8



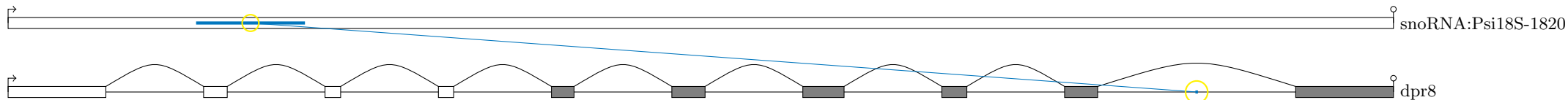
D.Me1	gaagtagt	acccatgatat...45...attgggaacagcaaagctgc	TGATGT	TGTA	GTTGG	-gcagcgctcttatcctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcctct--	
D.Sim	tgcgaagt	acccatgatat...45...attgggaacagcaaagctgc	TGATGT	TGTA	GTTGG	-gcagcgctcttttctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--	
D.Sec	tgcgaagt	acccatgatat...45...attgggaacagcaaagctgc	TGATGT	TGTA	GTTGG	-gcagcgctcttttctg	cgcgctcgacaaagaata-ttcggtcgaca	tttcgtct--	
D.Ere	tacgaagt	acccatgatat...45...attgggaacacaaagcttc	TGATGT	TGTA	GTTGG	-gcagcgctcttatactg	cgcgcttgacaaagaata-ttcggtcgaca	tttcctct--	
D.Gri	tcttactt	acccatgatat...47...actgggaacagtaaaagccg	TGATGT	TGTA	GTTGG	--aattg	cgcttatactgacaaagatttattcagactaca	aaacataa--	
D.Moj	taagctat	accccaagat...47...actgggaacagaaatgccg	TGATGT	TGTA	GTTGGTGTG	--cgccc	accatgctatctgacaaagtaattttcagacgaca	tattctat--	
D.Per	tccccatg	acccatgatat...45...attgggaacagtaaaagctgc	TGATGT	TGTA	GTTGG	-GCAG	cgctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Pse	tccccatg	acccatgatat...45...attgggaacagtaaaagctgc	TGATGT	TGTA	GTTGG	-GCAG	cgctctt-tcctg	cgcaactcgacaaagaat-ttcagactaca	cttccaag--
D.Vir	caaatcgt	acccatgatat...47...actgggaacagtaaaagctgc	TGATGT	TGTA	GTTGG	--agttg	cgcttgcctgtgtatccgacaaagttatttcagaccaca	aattccaact	
D.Yak	tacgaact	acccatgatat...45...attgggaacacaaagctgc	TGATGT	TGTA	GTTGG	-gcagcgctgtgatc	ttgacaaagattt-ttcggtcgaca	ttttctcc--	
		***** **	* ***** ** *	*****	*	** *	*****	*** * * **	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Me1	agtttgct	gtgagtatatat...2208...atac-----atgtatgttcttgata-----	CTAACt	TACAG	CATTGatg
D.Sim	agtttgct	gtgagtatatca...2235...atac-----atgtgtgttcttgata-----	CTAACt	TACAG	CATTGatg
D.Sec	agtttgct	gtgagtatatca...2154...acac-----atgtgtgttcttgata-----	CTAACt	TACAG	CATTGatg
D.Ere	agtttgct	gtgagtatatca...2247...aaac-----atgtgtgttcttgata-----	CTAACt	TACAG	CATTGatg
D.Gri	agtttact	gtgagtgaacat...3111...ctac-----atgtgtgttcttaaca-----	CTAACt	TACAG	CATTGatg
D.Moj	agtttgct	gtgagtaaaaat...2352...atat-----atgtgttcttgtgttc	TGACt	GCTAACt	TACAG
D.Per	agtttgct	gtgagtatatat...1924...ctgctcttcaatatgtgttc-----	TTGCt	aCTAACt	TACAG
D.Pse	agtttgct	gtgagtatatat...1956...ctgctcttcaatatgtgttc-----	TTGCt	aCTAACt	TACAG
D.Vir	agtttgct	gtaagtagacaa...2122...atat-----gtgtgtgttctgaaca-----	CTAACt	TACAG	CATTGatg
D.Yak	agtttgct	gtgagtatatca...2247...aaac-----atgtgtgttcttgata-----	CTAACt	TACAG	CATTGatg
		***** **	** *** *	* * * *	*****

id=27686 gene=FBgn0019662 name=qm segment=chr3L.7342118.7344368.1 type=IN

Figure 58: CS=10.8



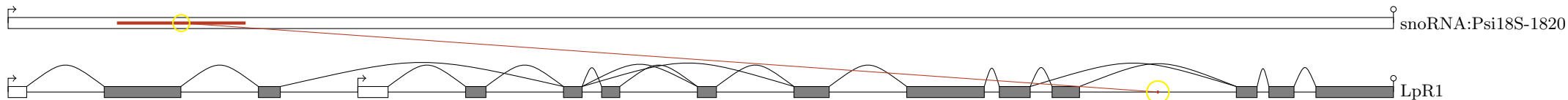
D.Mel	gaagtagt	acccaTGATaTTAAGCCGGCAGGTG	cctgcaatccccacgggcac..82...attcggtcgaca	tttcctct
D.Sim	tgcaagt	acccaTGATaTTAAGCCGGCAGGTG	cttgcaatccccacgggcac..82...attcggtcgaca	tttcgtct
D.Sec	tgcaagt	acccaTGATaTTAAGCCGGCAGGTG	cttgcaatccccacgggcac..82...attcggtcgaca	tttcgtct
D.Ere	tacgaagt	acccaTGATaTTAAGCCGGCAGGTG	cttgcaatccccacgggcac..82...attcggtcgaca	tttcctct
D.Ana	caaaactt	acccaTGATaTTAAGCCGGCAGATG	ctcgaaatctccacgcgatt..79...tttcagtcgaca	gcttttta
D.Gri	tcttactt	acccaTGATaTTAAGCCGGCAGacgcttgtaatttaaccagc---	87...attcagactaca	aaacataa
D.Per	tccccatg	acccaTGATaTTAAGCCGGCAGacgcccgtatccccataag---	84...tttcagactaca	cttccaag
D.Pse	tccccatg	acccaTGATaTTAAGCCGGCAGacgcccgtataccccataag---	84...tttcagactaca	cttccaag
D.Wil	atttcttt	acccaTGATaTTAAGCCGGCAGT	gtctgaaatttaaccaaga--..89...tttcagaccaca	tttcaacc
D.Yak	tacgaact	acccaTGATaTTAAGCCGGCAGGTG	cttgcaatccccacgggcac..82...tttcggtcgaca	ttttctcc
		*****	*** * * **	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	cgtcgatg	gtgagtagcccg...4234...ttagccagt--cttggcgTTTT--TATTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...609...gtttcgttctag	gcgagcat
D.Sim	cgtcgatg	gtgagtagcccg...4290...ttaccacat--cttggcgTTTT--TATTGCCGGCaaTTAAGTTA	aaaggcaataaagcttctgg...615...gtttcgttccag	gcgagcat
D.Sec	cgtcgatg	gtgagtagcccg...4145...ttagccagt--cttggcgTTTT--TATTGCCGGCaaTTAAGTTA	atagacaataaagcttctgg...586...gttcggttccag	gcgagcat
D.Ere	cgtcgatg	gtgagtagcccg...3592...ttagccagt--cttggcgTTTT--TATTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...484...gtttcattccag	gcgagcat
D.Ana	cgtcgatg	gtgagtagcccg...3404...ttagccagt--cttggcgTTTT--TATTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...719...ccgccgtccag	gtgaacat
D.Gri	cgtcgatg	gtgagtagcccg...4124...-----ggtatttaggttttcttttaTTGCCGGCaaTTAATT	Aataggcaataaagcttctgg...119...ccaattttgag	gcgagcat
D.Per	cgttgatg	gtaagtagaaa...4320...----ccagtagcttggcgTTTTTT--TTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...587...catcaattgcga	gggaacat
D.Pse	cgttgatg	gtaagtagaaa...4338...----ccagtagcttggcgTTTTTT--TTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...569...attcaattgcag	gcaacat
D.Wil	cgtcgatg	gtgagtagcccg...3054...-tagccagt--cttggcgTTTTTT--ATTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...339...ttgtttccag	gcaacat
D.Yak	cgtcgatg	gtgagtagcccg...4351...ttagccagt--cttggcgTTTT--TATTGCCGGCaaTTAAGTTA	ataggcaataaagcttctgg...554...tttcattccag	gcgagcat
		*** **	** **	*** **

id=96179 gene=FBgn0052600 name=dpr8 segment=chrX.14348263.14353189.1 type=IN

Figure 59: CS=12.6



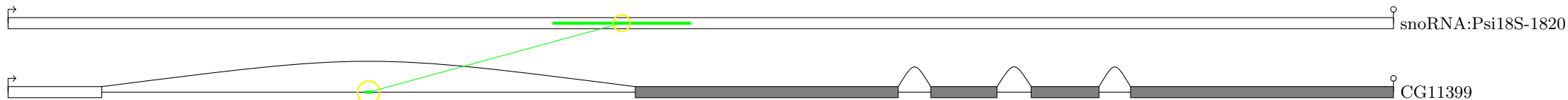
D.Mel	gaagtagt	acc	CCATGATAttAAGCCGG	caggtg	cctgcaatccccac...88...attcggtcgaca	tttcctct--
D.Sim	tgcgaagt	acc	CCATGATAttAAGCCGG	caggtg	ccttgaatccccac...88...attcggtcgaca	tttctct--
D.Sec	tgcgaagt	acc	CCATGATAttAAGCCGG	caggtg	ccttgaatccccac...88...attcggtcgaca	tttctct--
D.Ere	tacgaagt	acc	CCATGATAttAAGCCGG	caggtg	ccttgaatccccac...88...attcggtcgaca	tttctct--
D.Ana	caaaactt	acc	CCATGATAttAAGC	cggcagatgctc	gaatctcc...88...tttcagtcgaca	gcttttta--
D.Gri	tcttactt	acc	CCATGATAttAAGC	cggcagacgctt	gtaattta...93...attcagactaca	aaacataa--
D.Per	tccccatg	acc	CCATGATAttAAGC	cggcagacgccc	gtatcccc...90...tttcagactaca	cttccaag--
D.Vir	caaatcgt	acc	CCATGATAttAAGC	cggcagacgcat	gtatttta...95...--tcagaccaca	aattccaact
D.Wil	atttcttt	ac	CCCATGATAttAAGC	cggcagttgctc	gaaattta...96...tttcagaccac-	-atttcaacc
D.Yak	tacgaact	acc	CCATGATAttAAGCCGG	caggtg	ccttgaatccccac...88...tttcggtcgaca	ttttctcc--
			*****	** * *		** * * *

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	gactttcg	gtaggagt	gacc...693...gatgcagccaaccacaaca	TTGGCTTTGTCATGG	----ccacattaatcatcatcag...1068...tttttccgcag	ttgccgac
D.Sim	gactttcg	gtaggagt	gacc...1156...gatgcagccaaccacaaca	TTGGCTTTGTCATGG	----ccacattaatcatcatcaa...1112...tttttccgcag	ttgccgac
D.Sec	gactttcg	gtaggagt	gacc...672...gatgcagccaaccacaaca	TTGGCTTTGTCATGG	----ccacattaatcatcatcaa...1065...tttttccgcag	ttgccgac
D.Ere	gactttcg	gtaggagt	gacc...565...ggtgcagccaaccacagca	TTGGCTTTGTCATGG	----ccacattaatcatcatcag...1175...ttttgccatag	ttgctgac
D.Ana	ctcgtttg	gtaggatt	ggaa...432...--accatctatccgcaacattt	GCTTTGTCATGG	----ccacattaatcatcgtcat...1107...ttctgtccacag	ttgccgac
D.Gri	aagatttg	ggtatact	agtt...571...--gcatgcccggcataacattt	GCTTTGTCATGG	----ctcacattaatcatcatcaa...946...ctcaatccacag	ttgccgaa
D.Per	aataccgg	gtatgcct	ggca...895...--gggtgcaaccaactacattt	GCTTTGTCATGG	----ccacattaatcatcatcag...995...ctgcatccacag	ttgccgag
D.Vir	agctcttg	gtatgcct	gaca...509...--gccgctgtggcataacattt	GCTTTGTCATGG	----ctcacattaatcatcatcaa...857...ttcaattcacag	ttgccgaa
D.Wil	aatgtgca	atgggt	gtaact...247...--tcatggtattcacaacattt	GCTTTGTCATGGG	atagtacacattaatcatca...1199...accttgctgcag	ttgctgaa
D.Yak	gactttcg	gtaggagt	gacc...672...ggtgcagccaaccacaaca	TTGGCTTTGTCATGG	----ccacattaatcatcatcag...1142...ttttgccgcag	ttgctgac
		*		**** *****	*****	** * * *

id=117996 gene=FBgn0066101 name=LpR1 segment=chr3R.21568248.21570087_-1 type=IN

Figure 60: CS=10.8



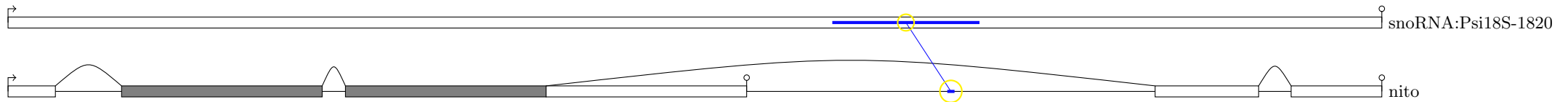
D.Mel	gaagtagt	acccatgatattaagccggcagggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacagcaaagctgctgatgtgtgatgttgggcagcgccttatcctgcgcgctcgacaaagaata-ttcggtcgaca
D.Sim	tgcaagt	acccatgatattaagccggcagggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacagcaaagctgctgatgtgtgatgttgggcagcgccttttcctgcgcgctcgacaaagaata-ttcggtcgaca
D.Sec	tgcaagt	acccatgatattaagccggcagggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacagcaaagctgctgatgtgtgatgttgggcagcgccttttcctgcgcgctcgacaaagaata-ttcggtcgaca
D.Ere	tacgaagt	acccatgatattaagccggcagggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca
D.Gri	tcttactt	acccatgatattaagccggcagacgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca
D.Moj	taagctat	acccaagatattaagccggcagtcgcttctgtatctgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca
D.Per	tccccatg	acccatgatattaagccggcagacgcccgtatccc--ccataagcgtctgtgactttgattgggaacagtaaggctgtg	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca
D.Pse	tccccatg	acccatgatattaagccggcagacgcccgtatccc--ccataagcgtctgtgactttgattgggaacagtaaggctgtg	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca
D.Vir	caaatcgt	acccatgatattaagccggcagacgcatgtatctgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca
D.Yak	tacgaact	acccatgatattaagccggcagggtgcttgaatcc--ccacgggcacc-----	TGTGacTATGaTTGG	gaacacaaaagcttctgatgtgtgatgttgggcagcgccttatactgcgcgcttgacaaagaata-ttcggtcgaca

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	gaaactag	gtgagttttgtg...464...----atcagct-tggtagacgctcgTCAAaaCATAtaCACA	-taaccaggcagaaaatctc-----	...863...ttgctcttgag	aaatattt
D.Sim	aaaactag	gtgagttttgtg...465...----atcagct-tggtagacgctcgTCAAaaCATAtaCACA	-taaccaggcagaaaatctc-----	...805...tcgctcttgag	aaatattt
D.Sec	aaaaatag	gtgagttttgtg...463...----atcagct-tggtagacgctcgTCAAaaCATAtaCACA	-taaccaggcagaaaatctc-----	...831...tcgctcttgag	aaatattt
D.Ere	gaaactag	gtgagttttgtg...450...----atcagct-tggtagacgctcgTCAAaaCATAtaCACA	-taaccaggcagaaaatctc-----	...832...tcgctcttgag	aaatattt
D.Gri	gaaaatag	gtgagttttgtg...491...----atcagct-aggtagacgctcgTCAAaaCATATACACA	-taaccaggcagaaaatctc-----	...514...gtggttttgag	agagctcc
D.Moj	gaaaatag	gtgagttttgtg...496...---gcatacagct-aggtagacgctCGTCAAaaCATATACACA	-agcaggcagaaaatctctat-----	...530...tgggttttgag	agctcaaa
D.Per	ggaaatag	gtgagttttgtg...444...tgcgatacagcctaaggtagCGCTcgTCAAaaCATATACACAT	-aaccaggcaaaaaggcagaa-----	...1120...tacctttctctc	agatcatc
D.Pse	ggaaatag	gtgagttttgtg...444...tgcgatacagcctaaggtagCGCTcgTCAAaaCATATACACAT	-aaccaggcaaaaaggcagaa-----	...1102...tacctttctctc	agatcatc
D.Vir	gaaaatag	gtgagttttgtg...475...----atcagct-aggtagacgctcgTCAAaaCATATACACAAGCAG	---gcagaaaatctctattcttt...	...474...ttgcttttgag	agctcaaa
D.Yak	gaaactag	gtgagttttgtg...450...----atcagct-tggtagacgctcgTCAAaaCATAtaCACA	-taaccaggcagaaaatctc-----	...853...tcgctcttgag	aaatattt

id=72726 gene=FBgn0037021 name=CG11399 segment=chr3L.20777722.20779128.-1 type=I5

Figure 62: CS=10.8



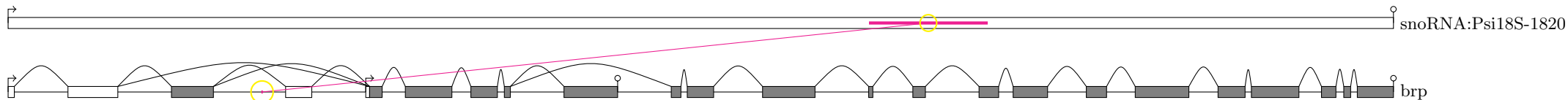
D.Mel	gaagtagt	accccatgatat...41...-tatgattgggaacagcaaa	CTGCTGATGTGTATGTT	-gggcagcg---	ctcttatcctgcgcgctcgacaagaata-ttcggtcgaca	tttcctct--
D.Sim	tgcgaa	accccatgatat...41...-tatgattgggaacagcaaa	CTGCTGATGTGTATGTTGG	-gcagcg---	ctcttttctgcgcgctcgacaagaata-ttcggtcgaca	tttcgtct--
D.Sec	tgcgaa	accccatgatat...41...-tatgattgggaacagcaaa	CTGCTGATGTGTATGTTGG	-gcagcg---	ctcttttctgcgcgctcgacaagaata-ttcggtcgaca	tttcgtct--
D.Ere	tacgaagt	accccatgatat...44...-gattgggaacaacaagctt	CTGATGTGTATGTTGG	-gcagcg---	ctcttatactgcgcgcttgacaagaata-ttcggtcgaca	tttcctct--
D.Gri	tcttactt	accccatgatat...45...-tgactgggaacagtaaa	GCTGATGTGTATGTT	-ggaattg---	cgctttatctgcgcatctgacaagatttattcagactaca	aaacataa--
D.Moj	taagctat	accccaagat...45...-tgactgggaacagaaatgcc	GCTGATGTGTATGTT	GTGT tgcg----	cccaccatgcgtatctgacaagtaattttcagacgaca	tatttctat--
D.Per	tccccatg	accccatgatat...40...ctttgattgggaacagtaaa	GGTGCTgATGTGTATGTTG	-ggcagcg---	ctctt-tcctgcgcaactcgacaagaat-ttcagactaca	cttccaag--
D.Pse	tccccatg	accccatgatat...40...ctttgattgggaacagtaaa	GGTGCTgATGTGTATGTTG	-ggcagcg---	ctctt-tcctgcgcaactcgacaagaat-ttcagactaca	cttccaag--
D.Vir	caaatcgt	accccatgatat...45...-tgactgggaacagtaaacgct	GCTGATGTGTATGTT	GAGT tgcg----	ccttgctgtgtatccgacaagttattttcagaccaca	aattccaact
D.Wil	atctcttt	accccatgatat...45...-tgactgggaacattaaagtc	GCTGATgTGTGTATGTTA	-aacagcgattctttaccctgcgcttgacaagaata-ttcagaccaca	t-ttcaacc-	tttctcc--
D.Yak	tacgaact	accccatgatat...41...-tatgattgggaacaacaag	CTGCTGATGTGTATGTTGG	-gcagcg---	ctgtgatcttgcgcgcttgacaagaat-ttcggtcgaca	tttctcc--
		*****	*****	*	*****	*** * * **

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D.Mel	gttaaaaa	tgtgagttgtga...1501...--cggtt---taaagtatacatatga-----	AACATA	CACACAGTCAGTAG	-acaat-aatacacatcctatgt...972...ttcgtcccacag	ttccgcag---
D.Sim	gttaaaaa	tgtgagttgtga...1500...ttccggtt---taaagtatacata-----	TCAAACATA	CACACAGTCAGTAG	-acaat-aatacacatccaagt...969...ttcgtccctcag	ttccgcag---
D.Sec	gttaaaaa	tgtgagttgtga...1490...ttgcggtt---taaagtatacata-----	TCAAACATA	CACACAGTCAGTAG	-acaat-aatacacatccaagt...969...ttcgtccctcag	ttccgcag---
D.Ere	ttaaaaaa	tgtgagttgtga...1474...ttgcggtt---taaagtatacata-----	TCAAACATA	CACACAGTCAG	-tagacaat-aatacacatcca---...943...ttaatctctcag	ttcctcag---
D.Gri	actagaca	tgtgatttctaa...2203...-tatat-----atacacacacatatg-----	AACATATACACAGTCAGT	ttacataaaaaacacatagac---...1076...--ttcatagca	cgaggccggcc	
D.Moj	attcaaaa	tgt--gttgtgatt...2073...tttgggt-----atgcatacacacat-----	ATATgAACATATACACAGTCAGT	ttacataaaaaacacatagac---...1057...aaattctttgcg	ttctgcct---	
D.Per	gttcaaa	tttcgctgtgaa...1868...-----tgtatacacagctctgtagac	AATATAACACACACATATGTATC	-aagttacgagttaatcttaa---...1066...gcctattttgcc	ttctgcag---	
D.Pse	gttcaaa	tttcgagtgaa...1846...-----tgtatacacagctctgtagac	AATATAACACACACATATGTATC	-aagttacgagttaatcttaa---...1071...--tatttgccc	ttctgcagc	
D.Vir	ttttaatc	tgtgtgcgtgtg...3194...ttatac-----atatatacacacat-----	ATTgAACATATACACAGTCAGT	ttacat-aaaaacacatagaca---...934...aaattctttgcg	cgctgcct---	
D.Wil	ttatatat	tgtgagttgtga...1936...tttttttaggctaagaatata-----	TAATATcaACACAGTCAGT	-agacaattaatacacaaatta---...1138...cgctgcataat	ttcatcga---	
D.Yak	ttacaatt	tgtgagttgtga...1482...ttgcatt---taaagtatacata-----	TCAAACATA	CACACAGTCAGTAG	-acaat-aatacacatccaagt...949...ttaatctctcag	ttcctcag---
		* *	*	*** * *	* * *	

id=65341 gene=FBgn0027548 name=nito segment=chr2R.3854197.3856755.1 type=I3 VIEW

Figure 63: CS=10.56



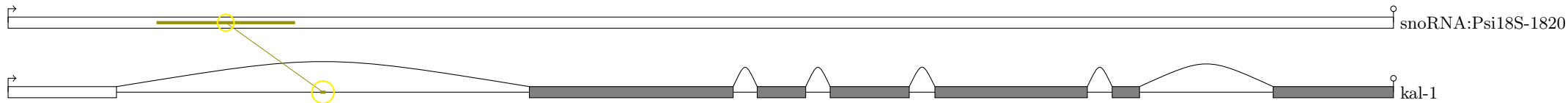
D. Mel	gaagtagt	accccatgatat...47...-----tgggaacagcaaagctgctg	ATGTGTGTATGTTGGGCAG	-----cgctcttatcctg	cgcgctcgacaaag-aatattcggtcgaca	tttcctct-
D. Sim	tgcgaagt	accccatgatat...47...-----tgggaacagcaaagctgctg	ATGTGTGTATGTTGGGCAG	-----cgctcttttctg	cgcgctcgacaaag-aatattcggtcgaca	tttcgtct-
D. Sec	tgcgaagt	accccatgatat...47...-----tgggaacagcaaagctgctg	ATGTGTGTATGTTGGGCAG	-----cgctcttttctg	cgcgctcgacaaag-aatattcggtcgaca	tttcgtct-
D. Ere	tacgaagt	accccatgatat...47...-----tgggaacaacaagcttctg	ATGTGTGTATGTTGGGCAG	-----cgctcttatactg	cgcgcttgacaaag-aatattcggtcgaca	tttcctct-
D. Gri	tcttactt	accccatgatat...49...-----tgggaacagtaaaagccgctg	ATGTGTGTATGTTGGA	-----attgcgctttat	ctgcatctgacaaagatttattcagactaca	aaacataa-
D. Moj	taagctat	accccaagat...49...-----tgggaacagaaatgccgctg	ATGTGTGTATGTTGGTG	-----ttgcgccaccat	gctatctgacaaagtaattttcagacgaca	tattctat-
D. Per	tcccatg	accccatgatat...41...tttgattgggaacagtaaaag	GTGCtGATGTGTGTATGTTGGGCAG	-----cgctctt-tcctg	cgccactcgacaaag-aaatttcagactaca	cttccaag-
D. Pse	tcccatg	accccatgatat...41...tttgattgggaacagtaaaag	GTGCtGATGTGTGTATGTTGGGCAG	-----cgctctt-tcctg	cgccactcgacaaag-aaatttcagactaca	cttccaag-
D. Wil	atcttctt	accccatgatat...49...-----tgggaacattaaagtcgctg	ATGTGTGTATGTTAaACAGcGTAT	tc---tttacctg	cgcgcttgacaaagtaa-tttcagaccaca	t-ttcaacc
D. Yak	tacgaact	accccatgatat...47...-----tgggaacaacaagctgctg	ATGTGTGTATGTTGGGCAG	-----cgctgtgatctt	gcgcttgacaaag-atTTTTcggtcgaca	ttttctcc-
		***** **	***** ** *	*****	**** ***** ** * * **	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	tcctttag	gtgaatgaccac...401...---ctaactaaagtctattattt	CTGT-CTAACATcACACGCAT	gcgcatggtacataaatttg	...188...tccgtgaagcag	ctgccgct----
D. Sim	tcctttag	gtgaatgaccac...402...---ctaactaaaatctattattt	CTGT-CTAACATcACACGCAT	gcgcatggtacataaatttg	...185...tccgtgaagcag	ctgccgct----
D. Sec	tcctttag	gtgaatgaccac...400...---ctaactaaagtctattattt	CTGT-CTAACATcACACGCAT	gcgcatggtacataaatttg	...186...tccgtgaagcag	ctgccgct----
D. Ere	tcctctag	gtgaatgaccac...408...---ctaactaaagtctattattt	CTGT-CTAACATcACACGCAT	gcgcatggtacataaatttg	...209...tccgtggcgag	ctgccggg----
D. Gri	tccactag	gtgaacaacaaa...552...---actaaaatctataatttctg	T-CTAACATcACACGCAT	gcgcatggtacattttctg	...152...aaatcaaatcg	catatgca----
D. Moj	tccactag	gtgaacaacaaa...708...---ctaanaatctataatttctgt	CGTTAACATcACACGCAT	gcgcatgttacattttgatt	...222...aatctcgagcag	ctgcttca----
D. Per	tcctttag	gtgaatgatgct...458...---ctaactaaagtctataattt	CTGT-CTtACATcACACGCATGCGC	atggtacataaacttgatt	...198...---caagcag	cttctctgagta
D. Pse	tcctctag	gtgaatgatgct...465...---ctaactaaagtctataattt	CTGT-CTtACATcACACGCATGCGC	atggtacataaacttgatt	...193...tgcaacaagcag	cttctctg----
D. Wil	tcctttag	gtgaacaacact...447...tttttaactaaa--aaccattATATtt	CTGTccTAACATcACACGCAT	gcgcatggtacattcgaaaa	...256...atcatcgagcag	ctgtaaga----
D. Yak	tcctctag	gtgaatgaccac...387...---ctaactaaagtctattattt	CTGT-CTAACATcACACGCAT	gcgcatggtacataaatttg	...196...tccgtgaagcag	ctgccgct----
		*** ** ***** *	***** * **	* *****	***** ** * * **	*

id=85261 gene=FBgn0259246 name=brp segment=chr2R.5395759.5396431.1 type=IN VIEW

Figure 64: CS=10.8



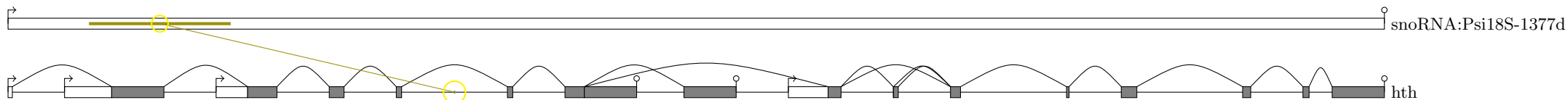
D. Mel	gaagtagt	accccat	GATATTAAG	CGGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgaca	tttcctct--
D. Sim	tgcgaagt	accccat	GATATTAAG	CGGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgaca	tttcgtct--
D. Sec	tgcgaagt	accccat	GATATTAAG	CGGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgaca	tttcgtct--
D. Ere	tacgaagt	accccat	GATATTAAG	CGGCAGGTG	cctgcaatccccacgggcac...82...attcggtcgaca	tttcctct--
D. Ana	caaaactt	accccat	GATATTAAG	CGGCAGATG	ctcgaatctccacgcgcatt...79...tttcagtcgaca	gcttttta--
D. Gri	tcttactt	accccat	GATATTAAG	CGGCAGAG	cgccctgtaatttaaccagcg--...86...attcagactaca	aaacataa--
D. Per	tccccatg	accccat	GATATTAAG	CGGCAGAG	cgcccgatccccataagc--...83...tttcagactaca	cttccaag--
D. Pse	tccccatg	accccat	GATATTAAG	CGGCAGAG	cgcccgatccccataagc--...83...tttcagactaca	cttccaag--
D. Vir	caaatcgt	accccat	GATATTAAG	CGGCAGAG	cgcatgtattttaaccagct--...88...--tcagaccaca	aattccaact
D. Wil	atctcttt	accccat	GATATTAAG	CGGCAGT	ttgctcgaaatttaaccaag---...90...tttcagaccac-	-atctcaacc
D. Yak	tacgaact	accccat	GATATTAAG	CGGCAGGTG	cctgcaatccccacgggcac...82...tttcggtcgaca	ttttctcc--
		*****		** *	** * * **	

id=36135 gene=FBgn0026169 name=snoRNA:Psi18S-1820 segment=chr2R.20063751.20063890.1 type=EN

D. Mel	ccattacc	gtgagtacctaa...1992...cgtcgatcgt--cgcgacatt	CATTTGTCGCTTAATGTC	cctcagttaggctgcctcgg...1458...gatcatttcag	attgcaat
D. Sim	ccattacc	gtgagtacctaa...2555...cgtcgatcgt--cgcgacatt	CATTTGTCGCTTAATGTC	cctcagttaggctgcctcgg...1362...gatcatttcag	attgcaat
D. Sec	ccattacc	gtgagtacctaa...2136...cgtcgatcgt--cgcgacatt	CATTTGTCGCTTAATGTC	cctcagttaggctgcctcgg...1376...gatcatttcag	attgcaat
D. Ere	ccattacc	gtgagtacctaa...2165...cgtcgatcgt--cgcgacatt	CATTTGTCGCTTAATGTC	cctcagttaggctgcctcgg...1505...gatcatttcag	attgcaat
D. Ana	ccattatt	gtaagtacctaa...2215...cgtcgatcgt--cgcgacatt	CATTTGTCGCTTAATGTC	cctcagttaggctgcctcgg...1442...gatcatttcag	attgcaat
D. Gri	gtactaca	aaaacaaaaaca...2065...cgtcgatcgt---cgcacattca	TTTGTGCGCTTAATGTC	catcagttggcgttaagttta...1361...tatttatttcag	atagccat
D. Per	ccattatt	gtaagtacatac...2688...---gatcgtcgcgacattca	TTTGTGCGCTTAATGTC	cctcagttaggctgcctcgg...1230...aatcatttcag	attgcaat
D. Pse	ccattatt	gtaagtacatac...2611...---gatcgtcgcgacattca	TTTGTGCGCTTAATGTC	cctcagttaggctgcctcgg...1112...aatcatttcag	attgcaat
D. Vir	cgttcatt	gtggtcaagt...1956...tgccgatcgt---cgcacattca	TTTGTGCGCTTAATGTC	cctcagttaggctgcctcgg...1550...cattcatttcag	attgcaat
D. Wil	atagtaca	ttaagccccctg...1646...-gtcgatcgt---cgcacattca	TTTGTGCGCTTAATGTC	cctcagttaggctgcctcgg...1055...aatcatttcag	attgcaat
D. Yak	ccattacc	gtgagtacctaa...2145...cgtcgatcgt--cgcgacatt	CATTTGTCGCTTAATGTC	cctcagttaggctgcctcgg...1504...gatcatttcag	attgcaat
		*****		** ** *	** ** *

id=52352 gene=FBgn0039155 name=kal-1 segment=chr3R.19967383.19970914.1 type=I5

Figure 66: CS=10.56



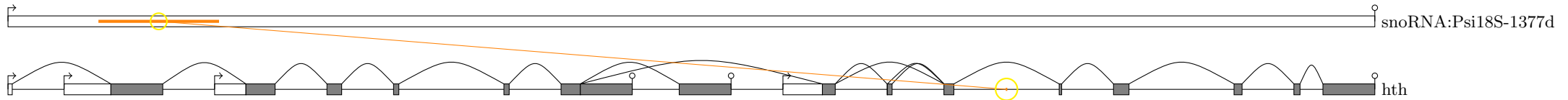
D. Mel	----tgtgaac---T	CCGTtCTTGtgTTATtcgctaagcgattacctaag-...89...tgcgccacattc	atgtcaat
D. Sim	----tgtgaac---T	CCGTtCTTGtgTTATtcgctaagcgattacctaag-...89...tgcgccacattc	atgtcaac
D. Sec	----tgtgaac---T	CCGTtCTTGtgTTATtcgctaagcgattacctaag-...89...tgcgccacattc	atttcaac
D. Ana	caactgta-----	CCGTtCTTGtgTTATttgctaagtggtttcatccta-...99...cgcccatattt	ttgtcggc
D. Gri	-----aacggcga	CCGTtCTTGtgTTATttgctgaatttagatactcg-...94...ggttacatgcc	ctctccat
D. Moj	---tta---CATTa	CCGTtCTTGtgTTATtcgctgaattgtactcca-...96...ctggccacattc	tatttaat
D. Per	----tatatccg---	CCGTtCTTGtgTTATtcactggactcaccttatag-...100...tgctacagagta	atcccaat
D. Pse	----tatatccg---	CCGTtCTTGtgTTATtcactggactcaccttatag-...100...tgctacagagta	atcccaat
D. Vir	-----agccaagc	CCGTtCTTGtgTTATtccttgaatttatctctcta-...96...cggccacatgc	ataccaat
D. Yak	----tgtacaca---	CCGTtCTTGtgTTATGcgctaagcgattacctcagc-...92...tgcgccacattt	gtatcttt
		***** **	**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	actcactg	gtaagtacgaag...1128...-gcagcagcatccagctgaat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...884...cttttcttacag	atggtgca
D. Sim	actcactg	gtaagtacgaag...1121...-gcagcagcatccagctgaat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...881...cttttcttacag	atggtgca
D. Sec	actcactg	gtaagtacgaag...1120...-gcagcagcatccagctgaat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...881...cttttcttacag	atggtgca
D. Ana	actcactg	gtaagtacacca...883...atccg-aacatccaacagaat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...829...ctctctttccag	atggtgca
D. Gri	attcactg	gtaagtataaaag...1383...-aggcagtttttgagcgcgat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...1184...ctctctttgag	atggtgca
D. Moj	attcactg	gtaagtataaaac...891...-agagatttttgagcgcgat	GTAAtCAAGACGGA	AATGctgctgcaaaaagtgcaaa...1115...ctctctttgag	atggtgca	
D. Per	attcactg	gtaagtataaaac...1283...gagatca-tttcggctggcat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...1124...ttcctttgag	atggtgca
D. Pse	attcactg	gtaagtataaaac...1250...gagatca-tttcggctggcat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...1146...ttcctttgag	atggtgca
D. Vir	attcactg	gtaagtataaaac...1018...caggcaa-ttttgaaccat	GTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...1051...ctctctttgag	atggtgca
D. Yak	actcactg	gtaagtacaatg...1135...agcagcagcatccagctgaa	TGTAAtCAAGACGGA	aatgccgctgcaaaaagt----	...908...gttttctttcag	atggtgca
	* *****	*****	*	***** *****	*	** ** *

id=103964 gene=FBgn0001235 name=hth segment=chr3R.6417182.6419272.-1 type=IN VIEW

Figure 67: CS=10



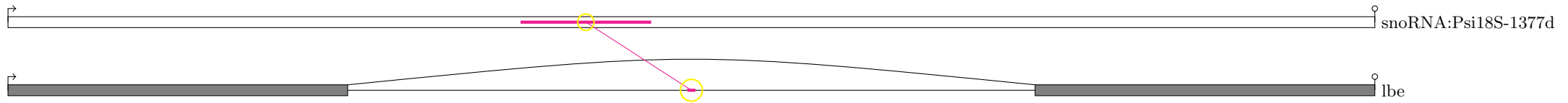
D.Mel	-tgtgaact	c-----CGTTC	TTGTGTTA	Attc	gctaagcgattac	ctaa...90...tgcgccacattc	atgtcaat	
D.Sim	-tgtgaact	c-----CGTTC	TTGTGTTA	Attc	gctaagcgattac	ctaa...90...tgcgccacattc	atgtcaac	
D.Sec	-tgtgaact	c-----CGTTC	TTGTGTTA	Attc	gctaagcgattac	ctaa...90...tgcgccacattc	atttcaac	
D.Ana	-caactgta	c-----CGTTC	TTGTGTTA	Attg	ctaggtgttcat	cct...100...cgcgccatattt	ttgtcggc	
D.Gri	-----a	CGGCGA	CGTTC	TTGTGTTA	Attg	ctgaatttagata	ctc...95...ggttacatgccc	ctctccat
D.Moj	ttacat-ta	c-----CGTTC	TTGTGTTA	Attc	ctgaattgtact	ccc...97...ctggccacattc	tatttaat	
D.Per	-tatatcgg	c-----CGTTC	TTGTGTTA	Attc	actggactcac	cttata...101...tgctacagagta	atcccact	
D.Pse	-tatatcgg	c-----CGTTC	TTGTGTTA	Attc	actggactcac	cttata...101...tgctacagagta	atcccact	
D.Vir	-----ag	c-CAAG	CGTTC	TTGTGTTA	Attc	ctgaatttatct	ctct...97...cggccacatgc	ataccaat
D.Yak	-tgtacaca	c-----CGTTC	TTGTGTTA	Attc	gctaagcgattac	ctca...94...tgcgccacattt	gtatcttt	
		*****		**			**	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	tagtcctg	gtaagtaatcag...2680...actttggctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1688...ctctacttgcag	acaatttc
D.Sim	tagtcctg	gtaagtaatctg...2688...actttggctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1673...ctctacttgcag	acaacttc
D.Sec	tagtcctg	gtaagtaatctg...2636...actttggctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1670...ctctacttgcag	acaacttc
D.Ana	tagtcctg	gtaagtactccc...2276...aactttggctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1584...ctctctttccag	acaacttc
D.Gri	tagtcctg	gtaagtaaatcc...2671...caacttccagcaaaatcaat	TAACaaACAAta	AACG	TTGTTG	gccaagccagacacgtattt...2231...atctctttgcag	acaatttc
D.Moj	cagtccctg	gtaagtacttga...2841...caacttccagcaaaatcaat	TAACaaACAAta	AACG	tttgttggccaagccagaca-----	...2068...tttctattgcag	acaatttc
D.Per	tagtcctg	gtaagtatttcc...2723...aactttgctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1622...ttctactttcag	acaacttt
D.Pse	tagtcctg	gtaagtatttcc...2685...aactttgctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1598...ttctactttcag	acaacttt
D.Vir	tagtcctg	gtaagtatcaga...2628...caacttccagcaaaatcaat	TAACaaACAAta	AACG	TTGTTG	tttggccaagccagacacgta---...1974...tttctttgcag	acaatttc
D.Yak	tagtcctg	gtaagtattgcc...2805...actttggctgcgaaatcaat	TAACaaACAAta	AACG	tttgttggccaggccagaca-----	...1646...ttctacttgcag	acaacttc
	*****	*****		* * *	*****		* * *

id=103979 gene=FBgn0001235 name=hth segment=chr3R.6355185.6359632.-1 type=IN VIEW

Figure 68: CS=10



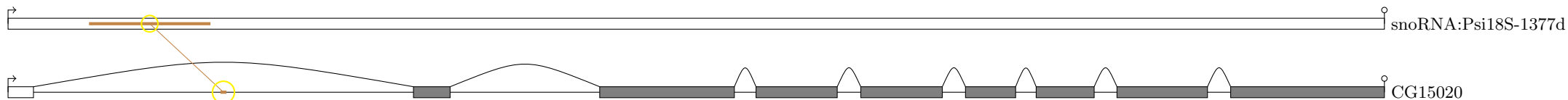
D. Mel	tgtgaac-t	ccgttcttgtgttattcgcctaagc-gattacctaagctcagcga	TTGTCAAACaGAACgTAGATT	aactgccgctaatactca...	40...	tgcgccacatt--c	atgtcaat
D. Sim	tgtgaac-t	ccgttcttgtgttattcgcctaagc-gattacctaagctcagcga	TTGTCAAACaGAACgTAGATT	aactgccgctaatactca...	40...	tgcgccacatt--c	atgtcaac
D. Sec	tgtgaac-t	ccgttcttgtgttattcgcctaagc-gattacctaagctcagcga	TTGTCAAACaGAACgTAGATT	aactgccgctaatactca...	40...	tgcgccacatt--c	atttcaac
D. Ere	ctgatac-a	ccgttcttgtgttttcgctggttgtctcaccacaaa-ccagtga	TTGTCAAACaGAAC	gtaaat--tggcagctatc--	51...	cgccacattacc	acgtcttc
D. Ana	caactgt-a	ccgttcttgtgttatttgcctaggtttcatcctaccctagtga	TTGTCAAACaGAAC	gcagaataatcaccaggcag---	56...	cgcccatatt--t	ttgtcggc
D. Gri	-aacggcga	ccgttcttgtgttatttgcctgaat-ttagactcctcagcga	TTGTCAAACaGAAC	gcacattaagtaccacctta----	52...	ggttacatgcc	ctctccat
D. Moj	ttacatt-a	ccgttcttgtgttattcgcctgaat-ttgtactccattcagcga	TTGTCAAACaGAAC	gcacagaaaattccaagtca----	54...	ctggccacatt--c	tatttaat
D. Per	tatatcc-g	ccgttcttgtgttattcactggac-tcaccttatagtcctgtga	TTGTCAAACaGAAC	gtacagtaaacctcaagcaa----	58...	tgctacagagta	atcccact
D. Pse	tatatcc-g	ccgttcttgtgttattcactggac-tcaccttatagtcctgtga	TTGTCAAACaGAAC	gtacagtaaacctcaagcaa----	58...	tgctacagagta	atcccact
D. Vir	agccaag-c	ccgttcttgtgttattcctgaattatctctctaatcagagga	TGTCAAACaGAAC	gcaagtgaataacaagccc----	54...	cgccacatg--c	ataccaat
D. Yak	tgtacac-a	ccgttcttgtgttattcgcctaagc-gattacctaagctcagcgg	TTGTCAAACaGAAC	gtaaat--tgggcgttgaa--	51...	tgcgccacatt--t	gtatcctt
		***** * **	* ***** * *			* **	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	gtcgaag	gtaagcatcatc...1816...	-ttaaattagtttttaatgtc-	GATCTAGTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	785...	ctctcattttag	ataaatcc
D. Sim	gtcacaag	gtaagcatcatc...1810...	-ttaaattagtttttaatgtc-	GATCTAGTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	798...	ctctcattttag	ataaatcc
D. Sec	gtcacaag	gtaagcatcatc...1772...	-ttaaattagtttttaatgtc-	GATCTAGTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	786...	ctctcattttag	ataaatcc
D. Ere	gtcacaag	gtaagcatatcc...1768...	-----tagtttttaatgtcga-tcta	GTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	768...	ttcttattttag	ataaatcc
D. Ana	gtcacaag	gtaagcatctgc...1618...	-----tagtttttaatggtga-tcta	GTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	632...	gttccattttag	acaaatcc
D. Gri	gtcacaag	gtaaatgtcaca...2526...	ccaactcaatgctcctaaggg-----	GTTTttTGTTACAA	aactgctcgagataa---caa...	803...	tggtcctttcag	ataaatcg
D. Moj	gtcacaag	gtaaatacacc...2453...	-----agtttttaatgctcagggccta	GTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	829...	tctgccttcag	ataaatcg
D. Per	atctcaag	gtaggtttctct...1850...	-----tagtttttaatggtga-tcta	GTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	659...	tgtcaattgcag	acaagtcc
D. Pse	atctcaag	gtaggtttccct...1829...	-----tagtttttaatggtga-tcta	GTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	661...	tgtcaattgcag	acaagtcc
D. Vir	gtcacaag	gtaaatagccca...3266...	-----tagtttttaatgctga-gcta	GTTTGTGTT-TGACAA	agcaatcgcatggaatggg--	833...	cgctctcggcag	acaaatcg
D. Yak	gtcacaag	gtaagcatatcc...1807...	-----tagtttttaatgctga-tcta	GTTTGTGTT-TGACAA	gcaatcgaaatgggtgtgaa...	815...	ctctcattttag	ataaatcc
		** ** **	*** ** **	*** ** * ** *	* ** *		** ** **	** ** **

id=100899 gene=FBgn0011278 name=lbe segment=chr3R.17268123.17270806.-1 type=IN VIEW

Figure 69: CS=12.98



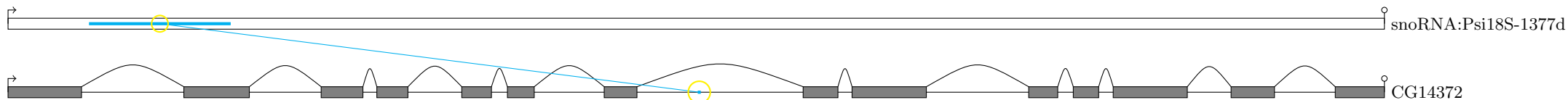
D. Mel	tgtgaact----	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	atgtcaat
D. Sim	tgtgaact----	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	atgtcaac
D. Sec	tgtgaact----	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	atttcaac
D. Ere	ctgataca----	CCGTTCTTGTGTT tttcgtggtgtctcacca...95...-cgccacattacc	acgtcttc
D. Ana	---caac TGTA	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	ttgtcggc
D. Gri	aacggcga----	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	ctctccat
D. Moj	-ttacatta---	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	tatttaac
D. Per	--tatatc-- CG	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	atcccact
D. Pse	--tatatc-- CG	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	atcccact
D. Yak	tgtacaca----	CCGTTCTTGTGTT atcgcctaagcgattaccta...91...tgcgccacatt--c	gtatcctt
		***** * **	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	cgaaaagag	gtaagttattca...606...gaagctgaagtaat-tataac---	AACA at TAAG ca AACGG cgtgcg-tttttacagctaag-----	...768...tcatac-tttgcag	ctgccagt
D. Sim	caagagag	gtaagtaaataa...588...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtgcg-tttttacagctaag-----	...785...tcatac-tttgcag	ctgccagt
D. Sec	caagagag	gtaagctattca...600...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtgcg-tttttacagctaag-----	...805...tcatac-tttgcag	ctgccagt
D. Ere	caaaagag	gtaagtttttct...643...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtgcg-tttttacagctaag-----	...843...tcatac-tttgcag	ctgccagt
D. Ana	ttaaatata	gcaacagaataa...785...ggagttgaagtaat-tataac---	AACA at TAAG ca AACGG cg TGCG -tttttacagctaagcgaaaa...1002...atgac-tttgcag	ctgccagt	
D. Gri	taacaaag	gtgagtgataa...1057...-gccaaagtaat-tataacaac	AACA at TAAG ca AACGG cgtgcg-tttttacagctaag-----	...1361...acatac-tttgcag	ttcgttca
D. Moj	cgtgaacg	gaagttgaagac...1760...-ctccggcagtgataaaaaac	AACA at TAAG ca AACGG cgtgcg-tttttacagctatg-----	...477...ttatac-tttgcag	cttcgact
D. Per	taagaagt	gtgagtatggtt...1109...gaagttggagtaat-tataac---	AACA at TAAG ca AACGGCG tgcg-tttttacagctaagcg---	...947...tccgattctgatt	ctgcagtt
D. Pse	taagaagt	gtgagtatggtt...1075...gaagttggagtaat-tataac---	AACA at TAAG ca AACGGCG tgcg-tttttacagctaagcg---	...726...-ccgattctgatt	ctgcagtt
D. Yak	aatacagag	gtaagtttggt...627...gaagttgaagtaat-tataac---	AACA at TAAG ca AACGG cgtgcg-tttttacagctaag-----	...863...-catc-tttgcag	ctgccagt
		*	***** * **		*

id=73423 gene=FBgn0035543 name=CG15020 segment=chr3L.4422314.4423768.1 type=I5

Figure 70: CS=11.8



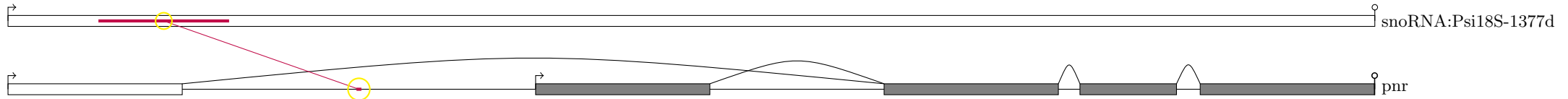
D. Mel	tgtgaact--	CGTTCTTGtGTTATT	cgctaagcgattacctaagc...88...	tgcgccacattc	atgtcaat
D. Sim	tgtgaact--	CGTTCTTGtGTTATT	cgctaagcgattacctaagc...88...	tgcgccacattc	atgtcaac
D. Sec	tgtgaact--	CGTTCTTGtGTTATT	cgctaagcgattacctaagc...88...	tgcgccacattc	atgtcaac
D. Ana	caactgta--	CGTTCTTGtGTTATT	tgctaggtgtttcatctac...98...	cgcgccatattt	ttgtcggc
D. Gri	aacggcga--	CGTTCTTGtGTTATT	tgctgaatttagatactcgt...93...	ggttacatgcc	ctctccat
D. Moj	-ttacatta-	CGTTCTTGtGTTATT	cgctgaatttgactcccat...95...	ctggccacattc	tatttaat
D. Per	--tatatc CG	CGTTCTTGtGTTATT	cactggactcaccttatagt...99...	tgctacagagta	atcccact
D. Pse	--tatatc CG	CGTTCTTGtGTTATT	cactggactcaccttatagt...99...	tgctacagagta	atcccact
D. Vir	agccaagc--	CGTTCTTGtGTTATT	ccctgaatttatctcttaa...95...	cgggccacatgc	ataccaat
D. Yak	tgtacaca--	CGTTCTTGtGTTATT	gcgctaagcgattacctaagc...93...	tgcgccacattt	gtatcttt
		*****	**		**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	catacgct	gtaagtaaatcg...256...-----cagcccttacgactcacggtt AATGACCAAGA tt ATGG cgcaatgaatgcattgcctt--...505...tgacttcgatag	atgccccg
D. Sim	catacgct	gtaagtaaatcg...256...-----cagcccttgcgactcacggtt AATGACCAAGA tt ATGG cgcaatgaatgcattgcctt--...543...tgactccgatag	atgccccg
D. Sec	catacgct	gtaagtaaatcg...256...-----cagcccttacgactcacggtt AATGACCAAGA tt ATGG cgcaatgaatgcattgcctt--...532...tgactccgatag	atgccccg
D. Ana	catacgct	gtaagtaaatcg...257...-----atggccccttggtcacggtt AATGACCAAGA tt ATGG cgcaatgaatgcattgcctt--...439...tgactccaatag	atgccccg
D. Gri	catacgct	gtaagtaaaata...231...acttgaagtctct----ccacatt AATGACCAAGA tt ATGG cgtaataaatgcatttgctt--...180...gctgcctgttag	acgcaccc
D. Moj	catacgct	gtaagtaaatgg...255...-tttgtgcccc---ctccacggtt AATGACCAAGA tt ATGG cacaatgaatgcattgcctt--...226...ttcgacccatag	acgcaccc
D. Per	catacgct	gtaagtaaacgc...288...-----cagcccactcagctcacggtt AATGACCAAGA tt ATGGCG caatgaatgcattgccttgg...237...cgtctcggcag	acgccccg
D. Pse	catacgct	gtaagtaaacgc...288...-----cggcccactcagctcacggtt AATGACCAAGA tt ATGGCG caatgaatgcattgccttgg...233...cgtctcggcag	acgccccg
D. Vir	catacgct	gtaagtaaatgc...254...-----cagctcccaaacaccacggtt AATGACCAAGA tt ATGG cgcaatgaatgcattgcctt--...206...tttaccatag	acgcgccc
D. Yak	catacgct	gtaagtaaatcg...242...-----agctcttacgactcacggtt AATGACCAAGA tt ATGG cgcaatgaatgcattgcctt--...578...tgactccgatag	atgctccg
	*****	*****	** * * * *

id=34618 gene=FBgn0038156 name=CG14372 segment=chr3R.9284728.9285569.1 type=IN VIEW

Figure 71: CS=14



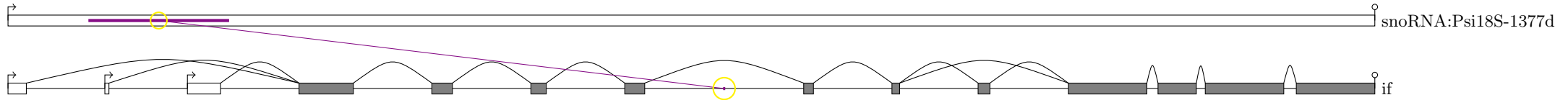
D.Mel	tgtgaact-	CCGTT ct TGTGTTATT CGCtaagcgattacctaagctca-...85...tgcgccacattc	atgtcaat
D.Sim	tgtgaact-	CCGTT ct TGTGTTATT CGCtaagcgattacctaagctca-...85...tgcgccacattc	atgtcaac
D.Sec	tgtgaact-	CCGTT ct TGTGTTATT CGCtaagcgattacctaagctca-...85...tgcgccacattc	atgtcaac
D.Gri	aacggc- GA	CCGTT ct TGTGTTATT TGCtgaatttagatactcgttca-...90...ggttacatgccc	ctctccat
D.Moj	ttacatta-	CCGTT ct TGTGTTATT CGCtgaatttgactcccattca-...92...ctggccacattc	tatttaat
D.Per	-tatatcc G	CCGTT ct TGTGTTATT CACtggactcaccttatagtct-...96...tgctacagagta	atcccact
D.Pse	-tatatcc G	CCGTT ct TGTGTTATT CACtggactcaccttatagtct-...96...tgctacagagta	atcccact
D.Vir	agccaagc-	CCGTT ct TGTGTTATT Ccctgaatttat--ctctcta-...94...cggccacatgc	ataccaat
D.Yak	-tgtacac A	CCGTT ct TGTGTTATT CGCGtaagcgattacctcagctca-...89...tgcgccacattt	gtatcttt
		***** **	**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	tgattaat	gtaagtttaaag...3463...--cgcagtcgctttcagatcgt GTGGATGATCAC att AACGGT ctggcgcatgatataaaa--...1442...ttgtgacagtgg	acgaaggg----
D.Sim	tgaataat	gtaagttgaaat...3495...--cgcagtcgctttcagatcgt GTGGATGATCAC att AACGGT ctggcgcatgatataaaa--...1410...ttgcagcagtgg	acgaaggg----
D.Sec	tgaataat	gtaagttgaaat...3497...--cgcagtcgctttcagatcgt GTGGATGATCAC att AACGGT ctggcgcatgatataaaa--...1408...ttgcagcagtgg	acgaaggg----
D.Gri	caatgaat	gcattttaaaag...3436...--ggtcgcgtcaacaagatcgt GTGGATGATCAC att AACGGT Caggcgcatgatataaaaagc...1467...--aagtgcac	tcgaagggaa-
D.Moj	atattcat	acaagtttatg...3494...--cgcctcgtcaacaagatcgt GTGGATGATCAC att AACGGT gcccggcgcatgatataaaa--...1411...--aagtgcac	tcgaagaaagg-
D.Per	ggatttta	ttaggtttaatg...3432...--cagagcagagcgcagatcgt GTGGATGATCAC att AACGGT ctggcgcatgatataaaaag-...1472...tcgaaggggaag	accgaggg----
D.Pse	acagtcaa	gtaagttgaaat...3440...--cagagcagagcgcagatcgt GTGGATGATCAC att AACGGT ctggcgcatgatataaaaag-...1464...tcgaaggggaag	accgaggg----
D.Vir	agagtcaa	gtaagttgaaat...2972...--catcgtcaacaagatcgt GGATGATCAC att AACGGT caggcgcatgatataaaa--...1935...--agtgcac	gcgagggcaacg
D.Yak	aaaactat	gtaagtttaa-...3525...ttcgcagtcgctttcagatcgt GTGTGGATGATCAC att AACGGT ctggcgcatgatataaaaag-...1377...ttgtggcgtgg	acggggg----
	*	***** * *****	*

id=48984 gene=FBgn0003117 name=pnr segment=chr3R.11852561.11860111.1 type=I5 VIEW

Figure 72: CS=10.62



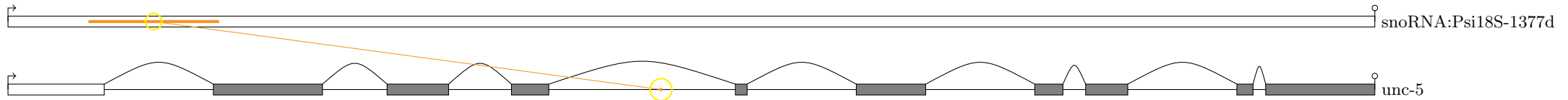
D.Mel	---tgtgaaCT	CCGTtCTTGtGTTAT	tcgctaagcgattacctaag-...89...tgcgccacattc	atgtcaat
D.Sim	---tgtgaaCT	CCGTtCTTGtGTTAT	tcgctaagcgattacctaag-...89...tgcgccacattc	atgtcaac
D.Sec	---tgtgaaCT	CCGTtCTTGtGTTAT	tcgctaagcgattacctaag-...89...tgcgccacattc	atttcaac
D.Gri	-aacggcga--	CCGTtCTTGtGTTAT	ttgctgaatttagatactcg-...94...ggttacatgccc	ctctccat
D.Moj	ttacatta--	CCGTtCTTGtGTTAT	tcgctgaattgtactccca-...96...ctggccacattc	tatttaat
D.Per	-tatatccg--	CCGTtCTTGtGTTAT	tcactggactcaccttatag-...100...tgctacagagta	atccccact
D.Pse	-tatatccg--	CCGTtCTTGtGTTAT	tcactggactcaccttatag-...100...tgctacagagta	atccccact
D.Vir	--agccaag-C	CCGTtCTTGtGTTAT	tccttgaatttatctctcta-...96...ccggccacatgc	ataccaat
D.Yak	-tgtacaca--	CCGTtCTTGtGTTATG	cgctaagcgattacctcagc-...92...tgcgccacattt	gtatcttt
		*****	**	**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	ccggacaa	gtgagtatcgat...2246...-gcccttgc-taaaaactaatt	GTAATtCAAGACGGGG	-cgattttattatgggaatta...1149...ctttcgttcag	acaactgg
D.Sim	ccggacaa	gtgagtatcgat...2154...-gcccttgc-taaaaactaatt	GTAATtCAAGACGGGG	-cgattttattatgggaatta...1165...ctttcgttcag	acaactgg
D.Sec	ccggacaa	gtgagtatcaat...2101...-gcccttgc-taaaaactaatt	GTAATtCAAGACGGGG	-cgattttattatgggaatta...1157...ctttcgttcag	acaactgg
D.Gri	tcgcacaa	gtaagtgggtcg...2769...-cccttgcgcagactaatt	GTAATtCAAGACGGG	ggcgattttattatgggaa---...1089...cactcttgcag	atcattgg
D.Moj	ccgcacaa	gtaagtgggtcg...3336...-agcccttg--caaagactaatt	GTAATtCAAGACGGG	ggcgattttattatgggaa---...1575...ttttccttacag	acaactgg
D.Per	tcggacaa	gtgagtaaaagc...2566...-gcccttgc-t-aaaactaatt	GTAATtCAAGACGGG	-ggcgattttattatgggaa---...1481...tcctacttgcag	acaactgg
D.Pse	tcggacaa	gtgagtaaaagc...2566...-gcccttgc-t-aaaactaatt	GTAATtCAAGACGGG	-ggcgattttattatgggaa---...1764...tcctacttgcag	acaactgg
D.Vir	tcgcacaa	gtaagtgggtcg...3889...-cccttgcagagactaatt	GTAATtCAAGACGGG	ggcgattttattatgggaa---...1021...aactcttgcag	acaactgg
D.Yak	ccggacaa	gtgagtatcgat...3155...-tgcccttgc-taaaaactaatt	TGTAATtCAAGACGGG	-ggcgattttattatgggaa---...1193...ctctcgttcag	acaactgg
	** ****	** ***	*****	* *****	* *****

id=66608 gene=FBgn0001250 name=if segment=chrX.16655043.16658517.-1 type=IN

Figure 73: CS=10.62



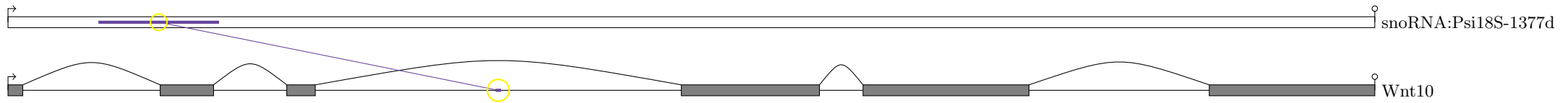
D.Mel	-tgtgaac-T	CCGTtcTTGTGTTA	ttcgctaagcgattaccta...	90...	tgcgccacattc	atgtcaat
D.Sim	-tgtgaac-T	CCGTtcTTGTGTTA	ttcgctaagcgattaccta...	90...	tgcgccacattc	atgtcaac
D.Sec	-tgtgaac-T	CCGTtcTTGTGTTA	ttcgctaagcgattaccta...	90...	tgcgccacattc	atttcaac
D.Ana	-caactgta-	CCGTtcTTGTGTTA	tttgctagtggtttcatcct...	100...	cgcccatattt	ttgtcggc
D.Gri	-aacggcga-	CCGTtcTTGTGTTA	tttgctgaatttagatactc...	95...	ggttacatgccc	ctctccat
D.Moj	ttacatta--	CCGTtcTTGTGTTA	ttcgctgaatttgactccc...	97...	ctggccacattc	tatttaat
D.Per	-tatatccg-	CCGTtcTTGTGTTA	ttcactggactcaccttata...	101...	tgctacagagta	atcccact
D.Pse	-tatatccg-	CCGTtcTTGTGTTA	ttcactggactcaccttata...	101...	tgctacagagta	atcccact
D.Vir	--agccaagC	CCGTtcTTGTGTTA	ttccctgaatttatctctct...	97...	ccggccacatgc	ataccaat
D.Yak	-gttacaca-	CCGTtcTTGTGTTA	ttcgctaagcgattaccta...	94...	tgcgccacattt	gtatcttt
		*****	**		**	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013_-1 type=EN

D.Mel	atgtccag	gtacgttctgc...	1278...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ccaatgggtgatgggaaat...	308...	cgccaacaacag	aggacact
D.Sim	atgtccag	gtacgttctgc...	1328...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ccaatgggtgatgggaaat...	292...	cgccaacaacag	aggacact
D.Sec	atgtccag	gtacgttctgc...	1295...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ccaatgggtgatgggaaat...	300...	cgccaacaacag	aggacact
D.Ana	ctgcccag	gtatgtacacgt...	1211...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ggcaaatggg-aacgggattg...	331...	tgccaacaacag	aggacact
D.Gri	atgtccag	gtatgcaaagcg...	1396...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ggcaaatggag-cgcagtaca...	345...	caacaacaacag	aggacact
D.Moj	atgtccag	gtaaaaccgaaa...	1698...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ggcaaatggag-ctgccaaca...	337...	cgacatctacag	aggacact
D.Per	ctgcccag	gtatgtccacac...	1043...	gcacagcaatgagcaattgtTGACagACAAGCGGG	gacaatggtg-agggatccg...	275...	tgccaacaacag	aggatact
D.Pse	ctgcccag	gtatgtccacac...	1042...	gcacagcaatgagcaattgtTGACagACAAGCGGG	gacaatggtg-agggatccg...	282...	tgccaacaacag	aggatact
D.Vir	atgtccag	gtatgcaaaaag...	1392...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ggcaaatggagccggagcagg...	313...	caacaacaacag	aggacact
D.Yak	atgtccag	gtacgttctgc...	1422...	gcacagcaatgagcaattgtTGACagACAAGCGGG	ggcaatggcgatgggaaa-	358...	tgccaacaacag	aggacact
	** **	***		*****			** * **	**** **

id=117644 gene=FBgn0034013 name=unc-5 segment=chr2R.11246255.11247919_1 type=IN

Figure 74: CS=11.8



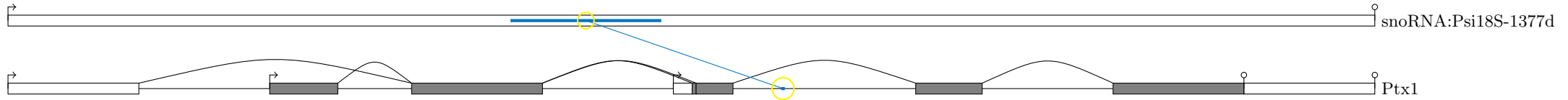
D.Mel	-tgtgaact	CCGTCCTGTGTTAT	tcgctaagcgattacctaag-...89...tgcgccacatt--c	atgtcaat
D.Sim	-tgtgaact	CGTTCCTGTGTTAT	tcgctaagcgattacctaag-...89...tgcgccacatt--c	atgtcaac
D.Sec	-tgtgaact	CGTTCCTGTGTTAT	tcgctaagcgattacctaag-...89...tgcgccacatt--c	atttcaac
D.Ere	ctg- ATACA	CCGTCCTGTGTTT	tctcgctgg--ttgtctacca-...95...-cgccacattacc	acgtcttc
D.Ana	caac- TGTA	CCGTCCTGTGTTAT	ttgctaggtgtttcatccta-...99...cgcccatatt--t	ttgtcggc
D.Gri	-aacggcga	CCGTCCTGTGTTAT	ttgctgaatttagataactcg-...94...-ggttacatgccc	ctctccat
D.Moj	ttacat-ta	CGTTCCTGTGTTAT	tcgctgaatttgactccca-...96...ctgccacatt--c	tatttaat
D.Per	-tatatcgg	CCGTCCTGTGTTAT	tcactggactcaccttatag-...100...-tgctacagagta	atcccact
D.Pse	-tatatcgg	CGTTCCTGTGTTAT	tcactggactcaccttatag-...100...-tgctacagagta	atcccact
D.Vir	-agccaagc	CCGTCCTGTGTTAT	tcctgaatttatctctcta-...96...ccggccacatg--c	ataccaat
D.Yak	-tgtacaca	CGTTCCTGTGTTATG	cgctaagcgattacctcagc-...92...tgcgccacatt--t	gtatcttt
		***** * **		* * *

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	gaagaaag	gtgagttggccg...3039...-tcttgggtttctctcgactt--	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1344...tttccgttttag	gctaccga
D.Sim	gaagaaag	gtgagttggccg...3024...-tcttgggtttctctcgactt--	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1348...tttccgttttag	gctaccgg
D.Sec	gaagaaag	gtgagttggccg...3032...-tcttgggtttctctcgactt--	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1346...tttccgttttag	gctaccgg
D.Ere	gaagaaag	gtgagttggccg...3202...-tgggcttctctcgacttgt--	GACAAaCAAGcgAGCG	GTAT gtcgcaacaattacttggg-...1318...tttccgttttag	gctaccgg
D.Ana	gaagaaag	gtgagttcactc...3486...-ctctgtctctcgctgctcat	GTGACaACAAGcgAGCG	GTATG tcgcaacaattacttggga...1415...gcgccattttag	ggtaccgg
D.Gri	aacgaaag	gtgagtggtgtgt...3270...-ctcagttcagcaaatgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1272...tcttcatgag	gctatcgg
D.Moj	gaagaaag	gtaagtgtgtgag...3471...-ctcggttcagcaaatgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1310...tctgcttgcag	gctatcgg
D.Per	gaagaaag	gtaggttcccag...2754...-ctttcgttttctctctgcat--	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1292...ctttccttttag	gctacagg
D.Pse	gaagaaag	gtaggttcccag...2750...-ctttcgttttctctctgcat--	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1274...ctttccttttag	gctacagg
D.Vir	caagaaag	gtgagtggtgtgag...3675...-ctcggttcagcaaatgcat	GTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1233...tcttctcaacag	gctatcgg
D.Yak	gaagaaag	gtgagttggccg...3085...ctcttgggtttctctcgactt--	TGTGACaACAAGcgAGCG	acgtatgtcgcaacaatta-----...1378...ttgccgttttag	gctaccgg
	* ** ** *		*****		** * * *

id=9496 gene=FBgn0031903 name=Wnt10 segment=chr2L.7370392.7374855.1 type=IN

Figure 75: CS=11



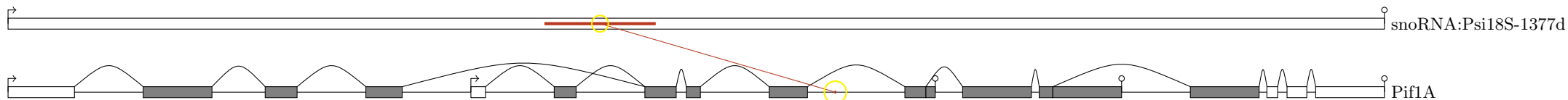
D.Mel	tgtgaac-t	ccgttctt	gtgtatt	cgctaag	cgattac	ctaagct	cagc-----	GATTGtc	AAACa	GAACGta	GATT	aactg	ccgcta	aatcact	cca...40..	tgcgcc	acatt--c	atgtcaat	
D.Sim	tgtgaac-t	ccgttctt	gtgtatt	cgctaag	cgattac	ctaagct	cagc-----	GATTGtc	AAACa	GAACGta	GATT	aactg	ccgcta	aatcact	cca...40..	tgcgcc	acatt--c	atgtcaac	
D.Sec	tgtgaac-t	ccgttctt	gtgtatt	cgctaag	cgattac	ctaagct	cagc-----	GATTGtc	AAACa	GAACGta	GATT	aactg	ccgcta	aatcact	cca...40..	tgcgcc	acatt--c	atgtcaac	
D.Ere	ctgatac-a	ccgttctt	gtgtttt	cgctggt	gtt-----	ctcac-CAA	AcCAGT	GATTGtc	AAACa	GAACG	---ta-	aatta	atggc	agctatc	--a...50..	--cgcc	acattacc	acgtcttc	
D.Ana	caactgt-a	ccgttctt	gtgtatt	ttgctag	gtt----	ttcatc	taccct	TAGT	GATTGtc	AAACa	GAACG	---caga	ataat	caccag	gcagc---	...55..	cgcc	catatt--t	ttgtcggc
D.Gri	-aacggcga	ccgttctt	gtgtatt	ttgctga	atttag	atactc	gttcag	---TG	ATTGtc	AAACa	GAACG	---cac	atta	agtacc	acccttac	---...51..	---ggt	tacatgcc	ctctccat
D.Moj	ttacatt-a	ccgttctt	gtgtatt	cgctga	atttga	ctccatt	cagc-----	GATTGtc	AAACa	GAACG	---cac	agaaa	attcc	aaagtc	ag---...53..	ctgg	ccacatt--c	tatttaat	
D.Per	tatatcc-g	ccgttctt	gtgtatt	ctactgg	actcac	cttatag	tcctg	---TG	ATTGtc	AAACa	GAACG	---tac	agtaa	actcaa	agcaac	---...57..	tgct	acagagt--a	atcccact
D.Pse	tatatcc-g	ccgttctt	gtgtatt	ctactgg	actcac	cttatag	tcctg	---TG	ATTGtc	AAACa	GAACG	---tac	agtaa	actcaa	agcaac	---...57..	tgct	acagagt--a	atcccact
		***** ** **				*		*****				*				**			

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	caaagatg	gtgagtag	cagt...140..	cggcgaa	atttact	cgg--ccg	GGTCCGTTT	aGTTTt	CGATT	agactgc	cctttg	atttgcga	-----	...530..	cttctccc	acag	gcaatcgc
D.Sim	caaagatg	gtgagtag	cagt...139..	cggcgaa	atttact	cgg--ccg	GGTCCGTTT	aGTTTt	CGATT	agactgc	cctttg	atttgcga	-----	...547..	cttctccc	acag	gcaatcgc
D.Sec	caaagatg	gtgagtag	cagt...138..	cggcgaa	atttact	cgg--ccg	GGTCCGTTT	aGTTTt	CGATT	agactgc	cctttg	atttgcga	-----	...513..	cttctccc	acag	gcaatcgc
D.Ere	caaagatg	gtgagtag	cagt...159..	cg--aatt	tactcgg--	ccgggtc	CGTTT	aGTTTt	CGATT	agACTG	ccTTG	atttgcg	acctcag	cgac...477..	cttctccc	cgag	gcaatcgc
D.Ana	caaagatg	gtaagtgc	tcca...127..	---gaa	atttact	cac--cgg	agtcCGTTT	aGTTTt	CGATT	agACTG	cctttg	atttgcg	acctcag	---...615..	cggtcc	gtccag	gcaatcgc
D.Gri	caaagatg	gtaagtaca	atc...888..	---aaa	atttact	cgc--tcg	cgTTC	aGTTTt	CGATT	agACTG	cctttg	atttgcg	acctcag	---...1097..	gttttt	ttgag	gtaatcgc
D.Moj	caaagatg	gtaagttag	acag...461..	---aaa	atttact	cac--tcg	cgTTC	aGTTTt	CGATT	agACTG	cctttg	atttgcg	acctcag	---...490..	ttttgt	ttag	gcaatcgc
D.Per	caaagatg	gtgagtat	ctaa...133..	---aat	ctatgc	gggtc	cggtcCGTTT	aGTTTt	CGATT	agACTG	cctttg	atttgcg	acctcag	---...598..	tactct	ttttag	gaaatcgc
D.Pse	caaagatg	gtgagtat	ctac...141..	---aat	ctatgc	gggtc	cggtcCGTTT	aGTTTt	CGATT	agACTG	cctttg	atttgcg	acctcag	---...610..	tactct	ttttag	gaaatcgc
		***** ** **		*** ** *		* *****		* *****		* *****		* *****		** * ****		** * ****	

id=71803 gene=FBgn0020912 name=Ptx1 segment=chr3R.26749281.26750034.1 type=IN VIEW

Figure 76: CS=10.62



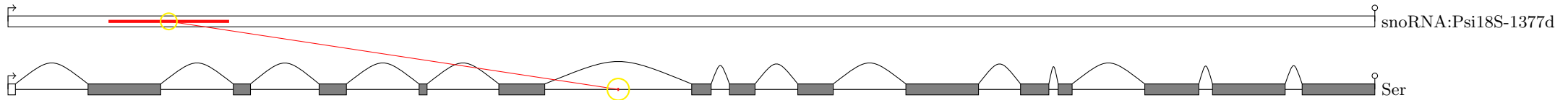
D. Mel	tgtgaac-t	ccgttctt	gtgtatt	cgctaagc	-gattac	ctaagct	cagcgat	TGTCAAAC	AGAAG	TAG	Attaact	gccgct	-aatcactc	----	..42..	tgcgccacatt	-c	atgtcaat
D. Sim	tgtgaac-t	ccgttctt	gtgtatt	cgctaagc	-gattac	ctaagct	cagcgat	TGTCAAAC	AGAAG	TAG	Attaact	gccgct	-aatcactc	----	..42..	tgcgccacatt	-c	atgtcaac
D. Sec	tgtgaac-t	ccgttctt	gtgtatt	cgctaagc	-gattac	ctaagct	cagcgat	TGTCAAAC	AGAAG	TAG	Attaact	gccgct	-aatcactc	----	..42..	tgcgccacatt	-c	atgtcaac
D. Ere	ctgatac-a	ccgttctt	gtgtttt	cgctggt	gtctc	cacaaaac	-cagtgat	TGTCAAAC	AGAAG	TAAA	Attaatg	gcagct	-atcactc	----	..46..	-cgccacattacc		acgtcttc
D. Ana	caactgt-a	ccgttctt	gtgtatt	gttaggt	gtttc	atcctac	cctagtgat	TGTCAAAC	AGAAG		-gcaga	aatcacc	aggcag	..56..	cgcgccatatt	-t	ttgtcggc	
D. Gri	-aacggcga	ccgttctt	gtgtatt	gtgctga	at-ttag	atactc	gttcagtgat	TGTCAAAC	AGAAG		-gcacatt	aagtacc	cactta	..52..	-ggttacatgccc		ctctccat	
D. Moj	ttacatt-a	ccgttctt	gtgtatt	cgctga	at-tgtact	cccattc	cagcgat	TGTCAAAC	AGAAG		-gcacaga	aaattcca	agtca	..54..	ctggccacatt	-c	tatttaat	
D. Per	tatatcc-g	ccgttctt	gtgtatt	cactggac	-tcacct	tatagtc	cctgtga	TTGTCAAAC	AGAAG		-gtacag	taactca	aagcaa	..58..	tgctacagagt	-a	atcccact	
D. Pse	tatatcc-g	ccgttctt	gtgtatt	cactggac	-tcacct	tatagtc	cctgtga	TTGTCAAAC	AGAAG		-gtacag	taactca	aagcaa	..58..	tgctacagagt	-a	atcccact	
D. Yak	tgtaac-a	ccgttctt	gtgtatt	gcgcta	agc-gattac	ctcagct	cagcggg	TGTCAAAC	AGAAG	TAAAT	aaatggc	ggtgaa	cactc	----	..45..	tgcgccacatt	-t	gtatcttt
		*****	*	**		*	*****	*	*	*	*	*	*		*	*		

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	gcgataag	gtag-g	caaacgg	...153...	-ctatgt	gtg	tgc-tgg	agt--c-tct	TTTAGTTTG	-TTGGCA	tct-----	aagccag	cacgga	aat...903...	attcaat	ctag	atggagag	
D. Sim	gcgataag	gtag-g	caaacgg	...153...	-ctttgt	gtg	tgc-tgg	agt--c-tct	TTTAGTTTG	-TTGGCA	tct-----	aagccag	cacgga	aat...890...	tctccg	atctag	atggagag	
D. Sec	gcgataag	gtag-g	caaacgg	...162...	-cttgtg	gtg	tgc-tgg	agt--c-tct	TTTAGTTTG	-TTGGCA	tct-----	aagccag	cacgga	aat...886...	tctccg	atctag	atggagag	
D. Ere	gcgataag	gtag-g	caaacgg	...160...	-cttggt	gtg	tgc-cgg	agt--c-tct	TTTAGTTTG	-TTGGCA	tct-----	aagccag	cacgga	aat...973...	gtttcg	atctag	atggagag	
D. Ana	acgataag	gtaag	accgat	...173...	---tcgg	gtg	tgc-tgc	agt-gtc	---GTTTG	-TTGGCA	tct-----	aagccag	cacgga	aat...946...	aactcg	tttcag	atggagag	
D. Gri	agagagag	agaga	aagaag	...208...	---tcgt	gcct	-aaca	atggt-tta	---GTTTG	-TTGGCA	tct-----	tagccag	tcgga	aat...2342...	gactccc	ctcag	atggatgg	
D. Moj	atgataag	gtaaac	cagaaa	...648...	----cgt	gcct	taaca	atggt-tta	---GTTTG	-TTGGCA	tct-----	tatagag	tcgga	aat...1689...	cattatt	tcag	atggatgg	
D. Per	gcgataag	gtagt	gcaagc	...188...	----cgt	gtg	-aaca	atggc	cca---GTTTG	TTGGCA	ctgccc	agagc	gcg	g---...1169...	tcgccc	caccag	atggacag	
D. Pse	gcgataag	gtagt	gcaacc	...188...	----cgt	gtg	-aaca	atggc	cca---GTTTG	TTGGCA	ctgccc	agagc	gcg	g---...1201...	tcgccc	caccag	atggacag	
D. Yak	gcgataag	gtag-g	caaacgg	...151...	actt	ggtg	tgc-tgg	agt--c-tc	ATTAGTTTG	-TTGGCA	tct-----	aagccag	cacgga	aat...1030...	gtttcg	atctag	atggagag	
	**	*	*		*	*	*	*	*****	*****	**	*	**	***	**	*****	*	

id=128167 gene=FBgn0261015 name=Pif1A segment=chr3R.4610315.4611451.-1 type=IN VIEW

Figure 77: CS=14



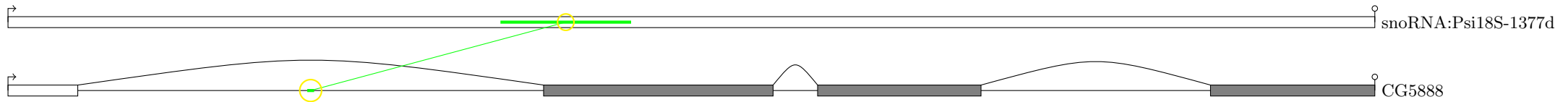
D.Mel	-tgtgaact	ccGTTcTGTGTTATCGCTaAGCG	---attacctaagctcagcgatt---	...79...	tgcgccacattc	atgtcaat
D.Sim	-tgtgaact	ccGTTcTGTGTTATCGCTaAGCG	---attacctaagctcagcgatt---	...79...	tgcgccacattc	atgtcaac
D.Sec	-tgtgaact	ccGTTcTGTGTTATCGCTaAGCGATTA	---cctaagctcagcgattgtca...	...75...	tgcgccacattc	atttcaac
D.Ana	-caactgta	ccGTTcTGTGTTATTTGCTaGGTGTTC	---atcctaccctagtgattg---	...87...	cgcccatattt	ttgtcggc
D.Gri	-aacggcga	ccGTTcTGTGTTATTGCTGAAT	---ttagatactcgttcagtgat---	...85...	ggttacatgcc	ctctccat
D.Moj	ttaca-TTA	CcGTTcTGTGTTATCGCTGAAT	---ttgtactcccattcagcgat---	...87...	ctggccacattc	tatttaat
D.Per	-tatatccg	ccGTTcTGTGTTAT	-----tcaactggactcacc--ttatag...	...100...	tgctacagagta	atcccact
D.Pse	-tatatccg	ccGTTcTGTGTTAT	-----tcaactggactcacc--ttatag...	...100...	tgctacagagta	atcccact
D.Vir	-agccaagc	ccGTTcTGTGTTAT	-----tccctgaatttatc--tctcta...	...96...	cgcccatatgc	ataccaat
D.Yak	-tgtacaca	ccGTTcTGTGTTATGCGCT	---aagcgattacctcagctcag---	...88...	tgcgccacattt	gtatcttt
		*****				**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	gaatgcga	gtaagtagctta...1882...	-----gtggttgttgcctgtgtaaTGCTgcAGCGTAACACAGAAT	acgtgagccggcgccatga-----	...1223...	ttaatccacag	atgcagac
D.Sim	gaatgcga	gtaagtagctta...1852...	-----gtggttgttgcctgtgtaaTGCTgcAGCGTAACACAGAAT	acgtgagccggcgccatga-----	...1230...	ttaatccacag	atgcagac
D.Sec	gaatgcga	gtaagtagctta...1827...	gcaacagtggttgttgcctTGATaaTGCTgcAGCGTAACACAGAAT	acgtgagccggcgccatga-----	...1219...	ttaatccacag	atgcagac
D.Ana	gaatgcga	gtaagtagcct...1048...	-----ctggttctattgctgttAAATGTTGCAGcGTAACACAGAAT	acgtgagccggcgccatga-----	...1099...	ttaccatttcag	atgccgac
D.Gri	gaatgcga	gtaagtacacta...1150...	-----ttggttgttgcctgtgtaaGTTTgAGCGTAACACAGAAT	acgtgagccagcgccatga-----	...1220...	tcacacaaccag	gtgtcgac
D.Moj	gaatgcga	gtaagtacatca...1354...	-----ttggttgttgcctgtgtaaGTTcAGCGTAACACAGAAT	acGTGAgccagcggctcatgattgcat...	...1323...	cgttccgaacag	atgtcgac
D.Per	gaatgcga	gtaagtgtcaa...864...	-----gccgttgttaatgttccagcGTAACACAGAAT	acgtgagccagcgccatga-----	...939...	cgctgatcacag	atgccgac
D.Pse	gaatgcga	gtaagtgtcaa...811...	-----gccgttgttaatgttccagcGTAACACAGAAT	acgtgagccagcgccatga-----	...935...	cgctgatcacag	atgccgac
D.Vir	gaatgcga	gtaagtactcaa...1240...	-----gccgttgttaatgttggagcGTAACACAGAAT	acgtgagccagcgccatga-----	...1116...	aatttaaccag	atgtagac
D.Yak	gaatgcga	gtaagtagcttt...1790...	-----gttgcctgtgtaatgcaccAGCGTAACACAGAAT	acgtgagccggcgccatga-----	...1283...	ttaatccacag	atgcagac
	*****	*****	*****	*****	*****	***	** **

id=18685 gene=FBgn0004197 name=Ser segment=chr3R.23005530.23008719.-1 type=IN VIEW

Figure 78: CS=11.8



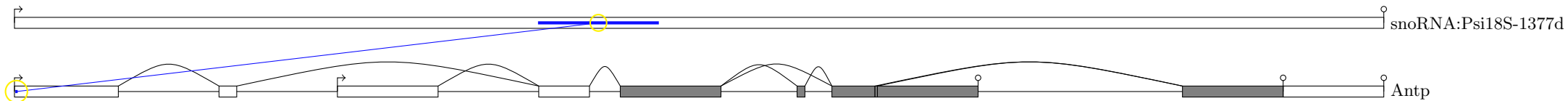
D.Me1	tgtgaact	ccgttctt	gtgttatt	cgctaagc	gattaccta	agctcagc-	GATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...48...	tgcgccacatt--c	atgtcaat
D.Sim	tgtgaact	ccgttctt	gtgttatt	cgctaagc	gattaccta	agctcagc-	GATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...48...	tgcgccacatt--c	atgtcaac
D.Sec	tgtgaact	ccgttctt	gtgttatt	cgctaagc	gattaccta	agctcagc-	GATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...48...	tgcgccacatt--c	atgtcaac
D.Ere	ctgataca	ccgttctt	gtgttatt	cgctggtt	gtctcacc	aaaaccag-	TGATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...52...	--cgccacattacc	acgtcttc
D.Ana	caactgta	ccgttctt	gtgttatt	gctaggtg	tttcatcct	accctag-	TGATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...57...	cgccacatt--t	ttgtcggc
D.Gri	aacggcga	ccgttctt	gtgttatt	gtggaatt	gatactcg	ttcag-	TGATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...53...	--ggttacatgcc	ctctccat
D.Moj	ttacatta	ccgttctt	gtgttatt	cgctgaatt	gtactccc	attcagc-	GATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...55...	ctggccacatt--c	tatttaat
D.Per	tatatccg	ccgttctt	gtgttatt	ctactgg	actcacct	tatagtcctg-	TGATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...59...	tgctacagagt--a	atccact
D.Pse	tatatccg	ccgttctt	gtgttatt	ctactgg	actcacct	tatagtcctg-	TGATTGTCAA	CAGAA	cgtagatta	actgccgcta	aa...59...	tgctacagagt--a	atccact
***** ** ** * ***** * * * *													

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Me1	tttgtttg	gtaagttacacc...	3007...	--tttcatataaatgca-caagt	TTTTG	TTGAtt	CAATC	aaaacgaagcaaaacgcaa--...	1901...	cctgccttacag	cgatcagt-
D.Sim	cttgtttg	gtaagttacacc...	2815...	--tttcatataaatgca-caagt	TTTTG	TTGAtt	CAATC	aaaacgaagcaaaacgcaa--...	2093...	cctgccttacag	cgatcagt-
D.Sec	tttgtttg	gtaagttacacc...	3026...	--tttcatataaatgca-caagt	TTTTG	TTGAtt	CAATC	aaaacgaagcaaaacgcaa--...	1882...	cctgccttacag	cgatcagt-
D.Ere	actgtgcg	gtaagttacacc...	3248...	--tttcatataaatgca-caagt	TTTTG	TTGAtt	CAATCA	aaacg-agcaaaacgcaaacg...	1659...	cctgccttacag	cgatcagt-
D.Ana	taatcttg	gtaagttacacc...	2501...	--tttcatataaatgca-caagc	TTTTG	TTGAtt	CAATCA	aaacgaaacgcaaacgcaaac...	2406...	tctgcctttcag	cgatcagt-
D.Gri	taagtttt	gttgtctgacct...	2948...	cttaaaatataaatgct-tat--	TTTTG	TTGAtt	CAATCA	aaacg-agcagaacgcaacga...	1959...	ttctcattgtag	cgttcagt-
D.Moj	agttttgc	gccagttacacc...	3745...	--ttaaatataaatgaa-tat	TTTTG	TTGAtt	CAATC	aaaacgaagcaaaacgcaaac...	1163...	ttgcattgtgag	ctaccttc-
D.Per	acggcctg	gtaagttacacc...	3473...	--tttcatataaatgca-caagc	TTTTG	TTGAtt	CAATCA	aaaacgaagcaaaacgcaaac...	1434...	ccctctttcag	gccacagt-
D.Pse	acggcctg	gtaagttacacc...	3447...	--tttcatataaatgca-caagc	TTTTG	TTGAtt	CAATCA	aaaacgaagcaaaacgcaaac...	1460...	ccctctttcag	gcaacagt-
***** * ***** * * * * *											

id=20935 gene=FBgn0028523 name=CG5888 segment=chr2L.16405956.16448313.-1 type=I5

Figure 79: CS=11.7



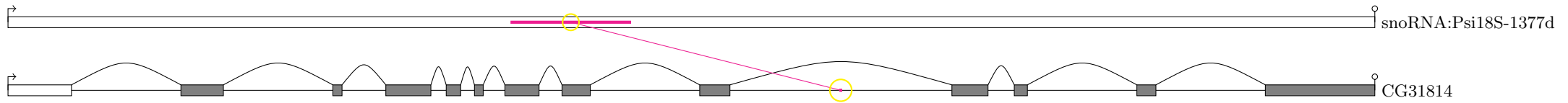
D.Mel	tgtgaac-t	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gtagattaa--ctgccgctaata...47...tgcgccacatt--c	atgtcaat
D.Sim	tgtgaac-t	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gtagattaa--ctgccgctaata...47...tgcgccacatt--c	atgtcaac
D.Sec	tgtgaac-t	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gtagattaa--ctgccgctaata...47...tgcgccacatt--c	atttcaac
D.Ere	ctgatac-a	ccgttcttgtgtttttcgtggttctcac-caaaaccagtga	TTGTCAAACaGAAC	gtaaattaa--tggcagctatc...51...-cgccacattacc	acgtcttc
D.Ana	caactgt-a	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gcagaataatcaccaggcag--...56...cgccatatt--t	ttgtcggc
D.Gri	-aacggcga	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gcacattaagtaccacctta--...52...-ggttacatgcc	ctctccat
D.Moj	ttacatt-a	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gcacagaaaattccaagtca--...54...ctggccacatt--c	tatttaac
D.Vir	agccaag-c	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gcaaaagtgaatacaagccc--...54...cgccacatg--c	ataccaat
D.Yak	tgtacac-a	ccgttcttgtgttatttcgctaagc-gattacctaagctcagcga	TTGTCAAACaGAAC	gtaataaa--tgggcgttgaa...51...tgcgccacatt--t	gtatcttt
		***** * **			* * **

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	atggG-TTT	aGTTTGATAG	gagtcgtaaagaatcaaca...981...tggatttaagag	gtaagtgc
D.Sim	atggG-TTT	aGTTTGATAG	gagtcgtaaagaatcaaca...984...tggatttaaaag	gtaagtgc
D.Sec	atggG-TTT	aGTTTGATAG	gagtcgtaaagaatcaaca...990...tggatttaaaag	gtaagtgc
D.Ere	atggG-TTT	aGTTTGATAG	gagtcgtaaagaatcaaca...985...tggatttaagag	gtaagtgc
D.Ana	atg-GTTT	aGTTTGATAG	gagtcgtaaagaatcaaca...849...tggatttaaaag	gtaagtgc
D.Gri	atggG-TTT	aGTTTGATAG	aaagtcgtaaagaatcaaca...907...tggatacagaag	gtgagttg
D.Moj	atggG-TTT	aGTTTGATAG	aaagtcgtaaagaatcaaca...1030...tggatttagacg	gtgagttg
D.Vir	atggG-TTT	aGTTTGATAG	aaagtcgtaaagaatcaac...910...tggatttagacg	gtgagttg
D.Yak	atggG-TTT	aGTTTGATAG	gagtcgtaaagaatcaaca...979...tggatttaagag	gtaagtgc
	*** * **	*****	***** * *	** **

id=131035 gene=FBgn0260642 name=Antp segment=chr3R.2823928.2824950.-1 type=E5 VIEW

Figure 80: CS=12.6



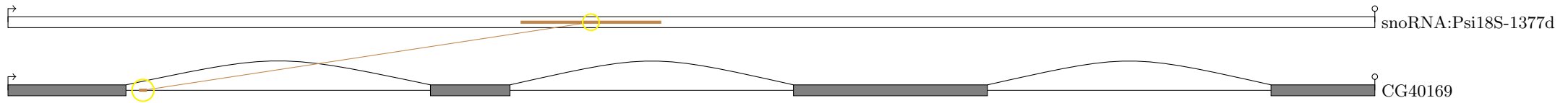
D. Mel	tgtgaac-t	ccgttctt	gtgtattc	gctaagc-	gattaccta	agctcagc	ATTGtCAAACAGA	-----	acgtagatta	actgccgcta	---. . .49. . .	tgcgccacatt--c	atgtcaat
D. Sim	tgtgaac-t	ccgttctt	gtgtattc	gctaagc-	gattaccta	agctcagc	ATTGtCAAACAGA	-----	acgtagatta	actgccgcta	---. . .49. . .	tgcgccacatt--c	atgtcaac
D. Sec	tgtgaac-t	ccgttctt	gtgtattc	gctaagc-	gattaccta	agctcagc	ATTGtCAAACAGA	-----	acgtagatta	actgccgcta	---. . .49. . .	tgcgccacatt--c	atgtcaac
D. Ere	ctgatac-a	ccgttctt	gtgttttc	gctggtt-	gtctcacca	aaaccagtg	ATTGtCAAACAGA	-----	acgtagatta	actgccgcta	---. . .50. . .	cgccacattacc	acgtcttc
D. Ana	caactgt-a	ccgttctt	gtgtattt	gctaggtg	ttcatcct	acctagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
D. Gri	-aacggcga	ccgttctt	gtgtattt	gctgaat-	ttagatact	gcttcagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
D. Moj	ttacatt-a	ccgttctt	gtgtattt	gctgaat-	ttagatact	gcttcagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
D. Per	tatatcc-g	ccgttctt	gtgtattt	gctgaat-	ttagatact	gcttcagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
D. Pse	tatatcc-g	ccgttctt	gtgtattt	gctgaat-	ttagatact	gcttcagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
D. Vir	agccaag-c	ccgttctt	gtgtattt	gctgaat-	ttagatact	gcttcagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
D. Yak	tgtaacac-a	ccgttctt	gtgtattt	gctgaat-	ttagatact	gcttcagtg	ATTGtCAAACAGA	-----	acgcagaata	atcaccagc	---. . .58. . .	cgccacatt--t	ttgtcggc
		*****	*	**		*	*****		*			*	**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	catatcgg	gtaa--gat	agggc...1323...	-at	tttatgct	taaatgtcac	TTTGTTTGttCGAT	---	aggcatag	ccatgcccaatt	-----	...1571...	tgcactttcag	acacctcg
D. Sim	catatcgg	gtaa--gat	agggc...1611...	-at	tttatgct	taaatgtcac	TTTGTTTGttCGAT	---	aggcatag	cattccaattc	-----	...1539...	tgcactttcag	acacctcg
D. Sec	catatcgg	gtaa--gat	agggc...1319...	-at	tttatgct	taaatgtcac	TTTGTTTGttCGAT	---	aggcatag	ccatgcccaatt	-----	...1533...	tgcactttcag	acacctcg
D. Ere	catatcgg	gtaa--gaa	agggc...2323...	---	tttatgct	taaatgtcactt	TGTTTGTTCGATAG	---	gacagga	aaatctatgct	-----	...1579...	tgcactttcag	acacctcg
D. Ana	aatatctg	gtaa--gtc	gagtg...1221...	---	ttttatgct	taaatgtcac	TTTGTTTGttCGAT	---	aagaaga	aatcatagacct	-----	...1387...	tcactatttag	acacatcc
D. Gri	aatatcag	gtaa--gtc	gagtg...2109...	---	attataaca	aaatactttcgc	CGTTTGTTTGttCGAT	---	aagga	aaacacacattcaa	-----	...1988...	tgcgttttacag	atacttca
D. Moj	aatatcag	gtaa--gtt	gagtg...2390...	---	attttatgct	taaatgtcactt	TTTGTTTGttCGAT	---	atgccaca	cacacactacaca	-----	...1866...	tttttttcag	acacttcc
D. Per	catatcgg	gtga--gtt	atgtc...1839...	---	ctttatgct	caaatgtcac	TTTGTTTGttCGAT	---	aagaagg	cagagataggct	-----	...1695...	gcatattttcag	acacatcg
D. Pse	catatcgg	gtga--gtt	atgtc...1841...	---	ctttatgct	caaatgtcac	TTTGTTTGttCGAT	---	aagaagg	cagagataggct	-----	...1686...	gcatattttcag	acacatcg
D. Vir	aatatcag	gtaa--ttt	gagtg...2153...	---	ttttatgct	taaatgtcactt	TGTTTGTTCGATAG	---	ggcacaga	cacacatctgac	-----	...1582...	tgcgttttacag	acacttcc
D. Yak	catatcgg	gtaa--gac	agggc...1335...	---	tttatgct	taaatgtcactt	TGTTTGTTCGATAG	---	gcatatg	ccgaacaaaagga	-----	...1581...	tgcactttcag	acacctca
	*****	*	**		****	**	*****		*			**	**	* * * *

id=47497 gene=FBgn0051814 name=CG31814 segment=chr2L.13684549.13687520.-1 type=IN

Figure 81: CS=12.98



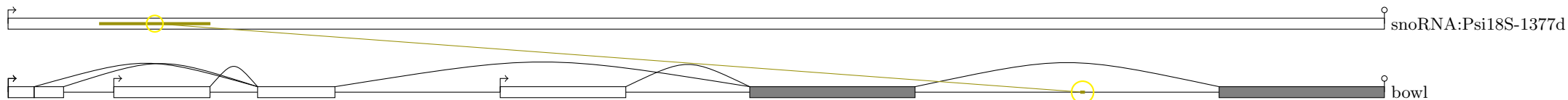
D. Mel	tgtgaact	ccggttccttggttattcgctaagcgatt-acctaagctcagcga	TGTC	AAACAGAACGTAGA	attaactgcc-----gctaactcactc-...42...tgcgccacatt--c	atgtcaat
D. Sim	tgtgaact	ccggttccttggttattcgctaagcgatt-acctaagctcagcga	TGTC	AAACAGAACGTAGA	attaactgcc-----gctaactcactc-...42...tgcgccacatt--c	atgtcaac
D. Sec	tgtgaact	ccggttccttggttattcgctaagcgatt-acctaagctcagcga	TGTC	AAACAGAACGTAGA	attaactgcc-----gctaactcactc-...42...tgcgccacatt--c	atttcaac
D. Ere	ctgataca	ccggttccttggtttttcgctggttgctc-cacaaaaccagtga	TGTC	AAACAGAACGTAGA	aattaatggca-----gcta-tcact-...48...cgccacattacc	acgtcttc
D. Ana	caactgta	ccggttccttggttattgctaggtgtttcatcctaccctagtga	TGTC	AAACAGAACGC	---cagaataatc-----accaggcagc-...55...cgccacatt--t	ttgtcggc
D. Gri	aacggcga	ccggttccttggttattgctgaatttag-atactcgttcagtga	TGTC	AAACAGAACGC	---cacattaagt-----accaccttac-...51...-ggttacatgccc	ctctccat
D. Moj	ttacatta	ccggttccttggttattcgctgaattgt-actccattcagcga	TGTC	AAACAGAACGC	---cacagaaaat-----tccaagtacag-...53...ctggccacatt--c	tatttaac
D. Per	tatatccg	ccggttccttggttattcactggactcac-cttatagtcctgtga	TGTC	AAACAGAACGTA	---cagtaaac-----tcaaagcaacta...55...-tgctacagagta	atcccact
D. Pse	tatatccg	ccggttccttggttattcactggactcac-cttatagtcctgtga	TGTC	AAACAGAACGTA	---cagtaaac-----tcaaagcaacta...55...-tgctacagagta	atcccact
D. Vir	agccaagc	ccggttccttggttattccctgaatttat-ctctcta	ATCAGAGGATGTC	AAACAGAACGC	---caaagtgaat-----aacaagcccg-...53...ccggccacatg--c	ataccaat
D. Yak	tgtacaca	ccggttccttggttattcgctaagcgatt-acctcagctcagc	GGTTGTC	AAACAGAACGTA	---aataaatgggcggttgaatca-...48...tgcgccacatt--t	gtatcctt
		***** * **	* * *****	*	*	* * *

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	atttggcc	gtaagtgcgtc	TCTATGTTT	TGTTGACAA	ctccttactggccgcacaaa-----...1258...ccattttgcag	tagttaaa
D. Sim	atttggcc	gtaagtgcgtc	TCTATGTTT	TGTTGACAA	ctccttactggccgcacaaa-----...1236...ccattttgcag	tagttaaa
D. Sec	atttggcc	gtaagtgcgtc	TCTATGTTT	TGTTGACAA	ctccttactggccgcacaaa-----...1236...ccattttgcag	tagttaaa
D. Ere	atagggcc	gtaagtgcgtc	TATGTTT	TGTTGACAA	ctccttactggccgcacaaa-----...1168...ccattttgcag	tagttaaa
D. Ana	tcgggcc	ataagtgcgtc	TGTTT	TGTTGACAA	ctccttactggccgcacacac-----...928...ccattttgcag	tagttaaa
D. Gri	atttgcct	ataagtgcgtc	TGTTT	TGTTGACAA	ctccttactggacgcacacag-----...1705...tcgctttgcag	tagttaaa
D. Moj	atttgcgt	ataagtgcgtc	TGTTT	TGTTGACAA	ctccttactggacgcacacag-----...1377...cgctttgcag	tagttaaa
D. Per	ggacgacc	ataagtgcgtc	TATGTTT	TGTTGACAA	ctccttactagccgcacacag-----...1884...ccattttgcag	tagttaaa
D. Pse	ggacgacc	ataagtgcgtc	TATGTTT	TGTTGACAA	ctccttactagccgcacacag-----...1399...ccattttgcag	tagttaaa
D. Vir	atttgcgt	ataagtgcgtc	TGTTT	TGTTGACAA	ctccttactagccgcacacac-----...1343...tcctttgcag	tagttaaa
D. Yak	atttggcc	gtaagtgcgtc	TATGTTT	TGTTGACAACT	ctccttactggccgcacacac-----...1184...ccattttgcag	tagttaaa
		*	*****	*****	**	* ** *

id=67325 gene=FBgn0259995 name=CG40169 segment=chr2L.20236129.20237448.1 type=IN

Figure 82: CS=15.4



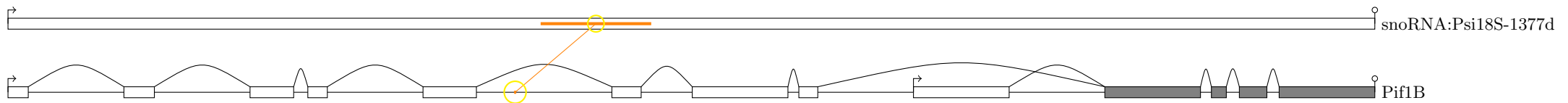
D.Mel	-tgtgaact	cCGTTCTTGTGTT	attcgctaagcgattaccta-----	...91...	tgcgccacatt--c	atgtcaat
D.Sim	-tgtgaact	cCGTTCTTGTGTT	attcgctaagcgattaccta-----	...91...	tgcgccacatt--c	atgtcaac
D.Sec	-tgtgaact	cCGTTCTTGTGTT	attcgctaagcgattaccta-----	...91...	tgcgccacatt--c	atgtcaac
D.Ere	-ctgataca	cCGTTCTTGTGTT	tttcgctggttctcaccac-----	...95...	--cgccacattacc	acgtcttc
D.Ana	-caactgta	cCGTTCTTGTGTT	TTTGctaggtgtttcatctaccc...	...96...	cgcccatatt--t	ttgtcggc
D.Moj	ttacat-ta	cCGTTCTTGTGTT	attcgctgaattgtactcc-----	...98...	ctggccacatt--c	tatttaat
D.Per	-tatatccg	cCGTTCTTGTGTT	attcactggactcaccttat-----	...102...	tgctacagagt--a	atcccact
D.Pse	-tatatccg	cCGTTCTTGTGTT	attcactggactcaccttat-----	...102...	tgctacagagt--a	atcccact
D.Vir	-agccaagc	cCGTTCTTGTGTT	attccctgaatttatctctc-----	...98...	cgccacatg--c	ataccaat
D.Yak	-tgtacaca	cCGTTCTTGTGTT	atgcgctaagcgattacctc-----	...95...	tgcgccacatt--t	gatatctt
		***** * **			** *	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	gatcacag	gtgagtcgaggt...864...	aactgtggct-gctgctatcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	381...	gtattgccag	gatatattc
D.Sim	gatcacag	gtgagtcgaggt...860...	aactgtggct-gctgctatcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	362...	gtattgccag	gatatattc
D.Sec	gatcacag	gtgagtcgaggt...848...	aactgtggct-gctgctatcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	364...	gtattgccag	gatatattc
D.Ere	gatcacag	gtgagtcgaggt...808...	aactgtggct-gctgctatcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	379...	gtattgccag	gatatattc
D.Ana	gatcacag	gtgagtcaaatg...917...	ggc--ctcttggccgggctgcTGGGc	AACA	CAAGtgGACG	ccattgccaagatggccgc...	461...	atcttctacag	gatatattc
D.Moj	gatcacag	gtgagtgccgc...1518...	-gctgctgtt-gctttgttcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	170...	gtccccctcag	gtacatac
D.Per	gatcacag	gtgagcgttcta...904...	gggtactgag-gcttatgtcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	170...	tcttctcgaag	gtacatac
D.Pse	gatcacag	gtgagcgttcta...892...	gggactgag-gcttatgtcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	170...	tcttctcgaag	gtacatac
D.Vir	gaccacag	gtgagtgcaagt...945...	-tggttgctggttctgtggtcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	173...	tccttctgctcag	gtatatac
D.Yak	gatcacag	gtgagtcgaggt...850...	tgcggctgct-gctgctatcc-----	AACA	CAAGtgGACG	ccattgccaagatggccgc...	398...	gtattgccag	gatatattc
	** *****	*****	*	*** *****	*****	***	**	*** ** *	

id=126114 gene=FBgn0004893 name=bowl segment=chr2L.3780580-3781903.1 type=IN

Figure 83: CS=14



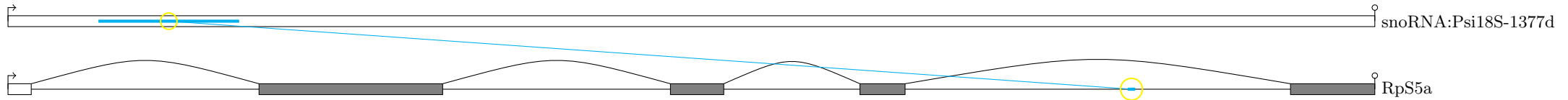
D. Mel	tgtgaac-t	cggttctt	gtgtattc	gctaagc-	gattaccta	agctcagc	gat	TGTCAAAC	AGAAC	TAG	Attaactg	ccgct-	aatcactc-	----	..42..	tgcgccacatt-	-c	atgtcaat
D. Sim	tgtgaac-t	cggttctt	gtgtattc	gctaagc-	gattaccta	agctcagc	gat	TGTCAAAC	AGAAC	TAG	Attaactg	ccgct-	aatcactc-	----	..42..	tgcgccacatt-	-c	atgtcaac
D. Sec	tgtgaac-t	cggttctt	gtgtattc	gctaagc-	gattaccta	agctcagc	gat	TGTCAAAC	AGAAC	TAG	Attaactg	ccgct-	aatcactc-	----	..42..	tgcgccacatt-	-c	atgtcaac
D. Ere	ctgatac-a	cggttctt	gtgttttt	cgctggt	gtctcaca	aaaac-	cagtgat	TGTCAAAC	AGAAC	TAA	Attaatgg	cagct-	atcactc-	----	..46..	-cgccacattacc		acgtcttc
D. Ana	caactgt-a	cggttctt	gtgtattt	gctaggt	gtttcatc	tacctc	tagtgat	TGTCAAAC	AGAAC		-gcagaata	atcacc	aggcag	..56..	cgcgccatatt-	-t	ttgtcggc	
D. Gri	-aacggcga	cggttctt	gtgtattt	gctgaat-	ttagatact	cgttcagt	gat	TGTCAAAC	AGAAC		-gcacatta	agtagc	accta	..52..	-ggttacatgccc		ctctccat	
D. Moj	ttacatt-a	cggttctt	gtgtattc	gctgaat-	ttgtactcc	attcagc	gat	TGTCAAAC	AGAAC		-gcacagaaa	attcca	agtc	..54..	ctggccacatt-	-c	tatttaat	
D. Per	tatatcc-g	cggttctt	gtgtattc	actggac-	tcacctat	agtcctgt	ga	TTGTCAAAC	AGAAC		-gtacagta	aactcaa	agcaa	..58..	tgctacagagt-	-a	atcccact	
D. Pse	tatatcc-g	cggttctt	gtgtattc	actggac-	tcacctat	agtcctgt	ga	TTGTCAAAC	AGAAC		-gtacagta	aactcaa	agcaa	..58..	tgctacagagt-	-a	atcccact	
D. Yak	tgtaac-a	cggttctt	gtgtattc	gctaagc-	gattaccta	cagctcagc	ggg	TGTCAAAC	AGAAC	TAA	Aaatggc	gcttga	atcactc-	----	..45..	tgcgccacatt-	-t	gtatcttt
		*****	*	**		*	*****	*****	*	*		*	*		*	*		

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D. Mel	gcgataag	gtag-gcaa	acgg...	153...	-ctatgtg	tgc-tgg	agt--c-tct	TTTAGTTTG-	TTGGCA	tct-----	aagccagc	acggaat	...903...	attcaatctag		atggagag	
D. Sim	gcgataag	gtag-gcaa	acgg...	153...	-ctttgtg	tgc-tgg	agt--c-tct	TTTAGTTTG-	TTGGCA	tct-----	aagccagc	acggaat	...890...	tctccgatctag		atggagag	
D. Sec	gcgataag	gtag-gcaa	acgg...	162...	-ctttgtg	tgc-tgg	agt--c-tct	TTTAGTTTG-	TTGGCA	tct-----	aagccagc	acggaat	...886...	tctccgatctag		atggagag	
D. Ere	gcgataag	gtag-gcaa	acgg...	160...	-cttggtg	tgc-cgg	agt--c-tct	TTTAGTTTG-	TTGGCA	tct-----	aagccagc	acggaat	...973...	gtttcgatctag		atggagag	
D. Ana	acgataag	gtaagacc	cgat...	173...	---tcggg	tgc-tgc	agtgga-tca---	GTTTTG-	TTGGCG	tct-----	aagtcagt	gcggaat	...946...	aactcgtttcag		atggagag	
D. Gri	agagagag	agagaaga	agag...	208...	---tcgtg	cct-aaca	atggt-tta---	GTTTTG-	TTGGCG	tct-----	tagccagt	gcggaat	...2342...	gactcccctcag		atggatgg	
D. Moj	atgataag	gtaaacaga	aaa...	648...	---cgtg	ccttaaca	atggt-tta---	GTTTTG-	TTGGCG	tct-----	tatagagt	gcggaat	...1689...	cattatttcag		atggatgg	
D. Per	gcgataag	gtagtgca	agcc...	188...	---cgtg	tgg-aaca	atggcgca---	GTTTTGTT-	TGGCAG	ctgccag	agagcg	gcgagg	...1169...	tcgcccaccag		atggacag	
D. Pse	gcgataag	gtagtgca	agcc...	188...	---cgtg	tgg-aaca	atggcgca---	GTTTTGTT-	TGGCAG	ctgccag	agagcg	gcgagg	...1201...	tcgcccaccag		atggacag	
D. Yak	gcgataag	gtag-gcaa	acgg...	151...	acttggt	tgc-tgg	agt--c-tc	ATTAGTTTG-	TTGGCA	tct-----	aagccagc	acggaat	...1030...	gtttcgatctag		atggagag	
	**	*			*	*		*****	*****	**	*	**	***	**	*****	*	

id=109983 gene=FBgn0046874 name=Pif1B segment=chr3R.4610315.4611451.-1 type=I5 VIEW

Figure 84: CS=14



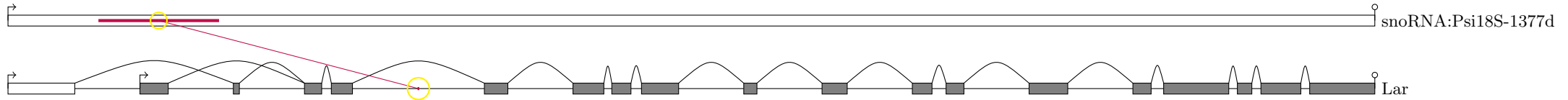
D.Mel	tgtgaact---	cCGTTC TTGTGTTATT	-----cgctaagcgattacctaagc-...88...	tgcgccacattc	atgtcaat
D.Sim	tgtgaact---	cCGTTC TTGTGTTATT	-----cgctaagcgattacctaagc-...88...	tgcgccacattc	atgtcaac
D.Sec	tgtgaact---	cCGTTC TTGTGTTATT	-----cgctaagcgattacctaagc-...88...	tgcgccacattc	atttcaac
D.Ana	---caactgta-	cCGTTC TTGTGTTATT	-----tgctaggtgtttcatcctac-...98...	cgcgccatattt	ttgtcggc
D.Gri	---aacggcga	cCGTTC TTGTGTTATT	tGCTGA atttagatactcgttcagtg-...87...	ggttacatgcc	ctctccat
D.Moj	ttacat-ta---	cCGTTC TTGTGTTATT	cGCTG aatttgactcccattcagc-...90...	ctggccacattc	tatttaat
D.Per	-tatatccg---	cCGTTC TTGTGTTATT	-----cactggactcaccttatagt-...99...	tgctacagagta	atcccact
D.Pse	-tatatccg---	cCGTTC TTGTGTTATT	-----cactggactcaccttatagt-...99...	tgctacagagta	atcccact
D.Vir	---agccaagc	cCGTTC TTGTGTTATT	-----ccctgaatttatctctctaa-...95...	ccggccacatgc	ataccaat
	*	*****	*	**	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	ctgctaag	gtgggtaaattg...449...	-----gcttgtgacaata--tcagtc-	AATGcACACGAGaAACG taaaagaacattagcaaact...316...	atgtat-ttccag	ggatcttc
D.Sim	ctgctaag	gtgggtacattg...452...	-----gcttgtgacaata--tcagttc-	AATGcACACGAGaAACG taaaagaacattaggaact...236...	atgtat-ttccag	ggatcttc
D.Sec	ctgctaag	gtgggtacattg...451...	-----gcttgtgacaata--tcagttc-	AATGcACACGAGaAACG taaaagaacattaggaact...236...	atgtat-ttccag	ggatcttc
D.Ana	ctgccaag	gtgaattgatag...445...	-----cttgtaaca--cactccagttc-	AATGcACACGAGaAACG taaaagaacactatcttcta...62...	-tgtattttcag	ggatcttc
D.Gri	ccgccaag	gtaagctataat...143...	-ttgtgcttgggca--acatta TCAGC tc	AATGcACACGAGaAACG tagaagaacaactcatttaa...247...	-ttacatttcag	ggttcac
D.Moj	ccgccaag	gtaagctataat...307...	cttgtgctttagca--acacc-- CAGC tc	AATGcACACGAGaAACG tagaagaacaactaattaat...247...	-ttcgattacag	ggttcac
D.Per	ccgccaag	gtatgcaccacc...293...	-----tgtggcattatcccctgtcc-	AATGcACACGAGaAACG tagaagaacagatatttg...463...	-tgctctttccag	ggttcttc
D.Pse	ccgccaag	gtatgcaccacc...293...	-----tgtggcattttcccctgtcc-	AATGcACACGAGaAACG tagaagaacagatatttg...465...	-tgctctttccag	ggttcttc
D.Vir	ccgccaag	gtaagctatcaa...247...	-----cttgtggca--acactcagctc-	AATGcACACGAGaAACG tagaagaacaactcaataagc...408...	-cttcgtttcag	ggttcac
	* ** **	**	*** **	*****	** **	** ** **

id=108905 gene=FBgn0002590 name=Rps5a segment=chrX.17037805.17038650.-1 type=IN

Figure 85: CS=11.7



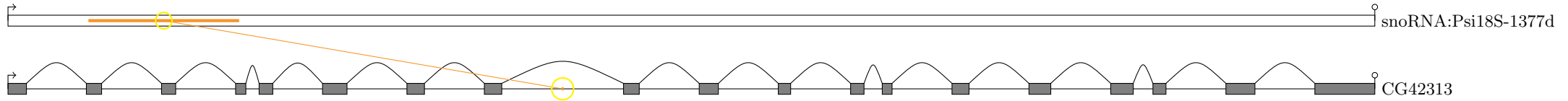
D.Mel	tgtgaact---	CCGTTcTTGTGTTA ttcgctaagcgattaccta...90...tgcgccacattc	atgtcaat
D.Sim	tgtgaact---	CCGTTcTTGTGTTA ttcgctaagcgattaccta...90...tgcgccacattc	atgtcaac
D.Sec	tgtgaact---	CCGTTcTTGTGTTA ttcgctaagcgattaccta...90...tgcgccacattc	atgtcaac
D.Ana	---caa CTGTa	CCGTTcTTGTGTTA tttgctgaggtgttcatcct...100...cgcgccatattt	ttgtcggc
D.Gri	aacggcga---	CCGTTcTTGTGTTA tttgctgaatttagatactc...95...ggttacatgccc	ctctccat
D.Moj	ttacatta---	CCGTTcTTGTGTTA ttcgctgaattgtactccc...97...ctgcgccacattc	tatttaat
D.Per	--tatatc- CG	CCGTTcTTGTGTTA ttcactggactcaccttata...101...tgctacagagta	atcccact
D.Vir	agccaagc---	CCGTTcTTGTGTTA ttccctgaatttatctctct...97...cgcgccacatgc	ataccaat
D.Yak	tgtacaca---	CCGTTcTTGTGTTA tgcgctaagcgattacctca...94...tgcgccacattt	gtatcttt
		***** **	**

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	atatgaag	gtaagtgcctg...4564...agtgcg-ggaatcccattg	TGACTtACAAAATGG cgtagaaagcagccaacaaa-----	...346...tcctcgttg	cag	gcgataaa
D.Sim	ctatgaag	gtaagtgcctg...4587...agtgcg-ggaatcccattg	TGACTtACAAAATGG cgtagaaagcagccaacaaa-----	...323...tcctcgttg	cag	gcgataaa
D.Sec	ctatgaag	gtaagtgcctg...4575...agtgcg-ggaatcccattg	TGACTtACAAAATGG cgtagaaagcagccaacaaa-----	...335...tcctcgttg	cag	gcgataaa
D.Ana	ctatgaag	gtaagtgcctg...4653...tgtgtg-ggaacgccattg	TGACTtACAAAATGGcTAG aaaat-gccaacaaaagcgac...252...tctccattg	cag	gcgataaa	
D.Gri	ctatgaag	gtaagtggcaac...4593...-gtttggtgcccaccattg	TGACTtACAAAATGG cgtagaaagc-ggcaacaaac-----	...317...tttcggttg	cag	gcgataaa
D.Moj	atatgaag	gtgagtgcgaga...4558...-gtgtggtgaaagccattg	TGACTtACAAAATGG cgtagaaagc-ggcaacaaag-----	...352...ttctgttac	cag	gcgataaa
D.Per	ctatgaag	gtaagtgcctg...4649...tgtgt-gtgaagccattg	TGACTtACAAAATGGCG tagaaagc-gccaacaaagag---	...259...gttttttg	cag	gcgataaa
D.Vir	ctatgaag	gtaagtggcaac...4586...-gtttgctgcacgccattg	TGACTtACAAAATGG cgtagaaagc-ggcaacaaag-----	...324...ttcccgttg	cag	gcgataaa
D.Yak	ctatgaag	gtaagtgcctg...4589...agagcg-ggaatcccattg	TGACTtACAAAATGG cgtagaaagc-gccaacaaa-----	...321...tcctcgttg	cag	gcgataaa
	*****	** ****	* * *****	* *****	** ***	*****

id=108542 gene=FBgn0000464 name=Lar segment=chr2L.19644636.19691017.1 type=IN

Figure 86: CS=11.7



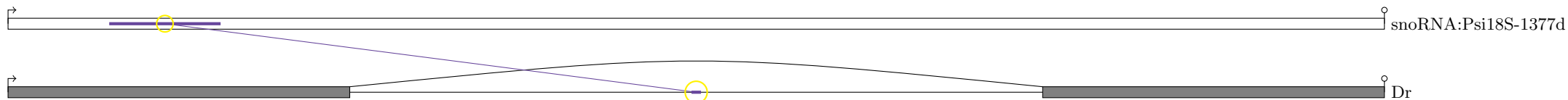
D.Me1	tgtgaact---	CCGTTcTTGTGTTATT	cgctaagcgattacctaagc...88...	tgcgccacattc	atgtcaat
D.Sim	tgtgaact---	CCGTTcTTGTGTTATT	cgctaagcgattacctaagc...88...	tgcgccacattc	atgtcaac
D.Sec	tgtgaact---	CCGTTcTTGTGTTATT	cgctaagcgattacctaagc...88...	tgcgccacattc	atttcaac
D.Ana	---caacTGTA	CCGTTcTTGTGTTATT	tgctaggtgtttcatcctac...98...	cgcgccatattt	ttgtcggc
D.Gri	aacggcga---	CCGTTcTTGTGTTATT	tgctgaatttagatactcgt...93...	ggttacatgcc	ctctccat
D.Moj	ttacatta---	CCGTTcTTGTGTTATT	cgctgaatttgactcccat...95...	ctggccacattc	tatttaat
D.Per	-tatatcc--G	CCGTTcTTGTGTTATT	cactggactcaccttatagt...99...	tgctacagagta	atcccact
D.Pse	-tatatcc--G	CCGTTcTTGTGTTATT	cactggactcaccttatagt...99...	tgctacagagta	atcccact
D.Vir	agccaagc---	CCGTTcTTGTGTTATT	ccctgaatttatctctctaa...95...	ccggccacatgc	ataccaat
		*****	**		

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Me1	tgtcgttt	gtaagtattaca...3907...	---tccgtggt-ggaacggtaaat	GATAAtCACAAaAATGG	cctgcaacatgtgtgcgga	-----	...1001...	tcctctttgcag	atcctccc
D.Sim	tgtcgttt	gtaagtattaca...3628...	---tccgtggt-ggaacggtaaat	GATAAtCACAAaAATGG	cctgcaacatgtgtgcgga	-----	...1280...	tcctctttgcag	atcctccc
D.Sec	tgtcgttt	gtaagtattaca...3871...	---tccgtggt-ggaacggtaaat	GATAAtCACAAaAATGG	cctgcaacatgtgtgcgga	-----	...1037...	tcctctttgcag	atcctccc
D.Ana	tgtcgttt	gtaagtattaca...3863...	agggtggcagc--aacggtaaat	GATAAtCACAAaAATGG	ccTGCAacatgtgtgcgga	aatagc...	1039...	tcctctttgcag	atcctccc
D.Gri	tgtcgttt	gtaagtattaca...3691...	-ttgggtagc--taacggtaaat	GATAAtCACAAaAATGG	cccgcaacatgtgtgcgga	-----	...996...	aattctttgcag	atccccca
D.Moj	tgtcgttt	gtaagtattaca...3573...	-gctggcagc--taacggtaaat	GATAAtCACAAaAATGG	cctgcaacatgtgtgcgga	-----	...1335...	aattgtttgcag	atcctcca
D.Per	tgtcgttt	gtaagtattaca...3611...	---aacgcagccgtaac-gtaaat	GATAAtCACAAaAATGG	ccggcaacatgtgtgcgga	-----	...1296...	gtctctttgcag	atccacct
D.Pse	tgtcgttt	gtaagtattaca...3466...	---cggcagccgtaacggtaaat	GATAAtCACAAaAATGG	ccggcaacatgtgtgcgga	-----	...1441...	gtctctttgcag	atccacct
D.Vir	tgtcgttt	gtaagtattaca...3702...	-ggtggcagc--taacggtaaat	GATAAtCACAAaAATGG	cctgcaacatgtgtgcgga	-----	...1206...	gaatcattgcag	atccccca
		*****	*****	* * * * *	*****	*****		* * * * *	**** *

id=78240 gene=FBgn0259213 name=CG42313 segment=chr2L.14923080.14932513.-1 type=IN

Figure 88: CS=12.6



```

D.Mel -tgtgaact ccGTTCTTGTGTTA-----ttcgctaagcgattacctaa...90...tgcgccacattc atgtcaat
D.Sim -tgtgaact ccGTTCTTGTGTTA-----ttcgctaagcgattacctaa...90...tgcgccacattc atgtcaac
D.Sec -tgtgaact ccGTTCTTGTGTTA-----ttcgctaagcgattacctaa...90...tgcgccacattc atttcaac
D.Ana -caactgta ccGTTCTTGTGTTATTGCTaGGTGtttcatcctaccctagtgat-...89...cgcccatattt ttgtcggc
D.Gri -aacggcga ccGTTCTTGTGTTA-----tttgctgaatttagatactc...95...ggttacatgcc ctctccat
D.Moj ttacat-ta ccGTTCTTGTGTTA-----ttcgctgaatttgactccc...97...ctggccacattc tattaat
D.Per -tatatccg ccGTTCTTGTGTTA-----ttcactggactcaccttata...101...tgctacagagta atcccact
D.Pse -tatatccg ccGTTCTTGTGTTA-----ttcactggactcaccttata...101...tgctacagagta atcccact
D.Vir -agccaagc ccGTTCTTGTGTTA-----ttccctgaatttatctctct...97...cggccacatgc ataccaat
D.Yak -tgtacaca ccGTTCTTGTGTTA-----tgcgctaagcgattacctca...94...tgcgccacattt gtatcctt
***** * **

```

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

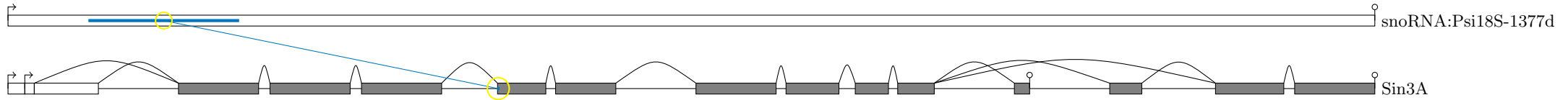
```

D.Mel cgggtggag gtaagtgtcgctt...2958...-----gaaacccattccaacaattTAGCgACAAatGAGCaaattaatttgaataaaatg...1952...tctatcttccag atgccaac
D.Sim cgggtggag gtaagtgtcgctt...2984...-----gaaacccattccaacaattTAGCgACAAatGAGCaaattaatttgaataaaatg...1926...tctatcttccag atgccaac
D.Sec cgggtggag gtaagtgtcgctt...2976...-----gaaacccattccaacaattTAGCgACAAatGAGCaaattaatttgaataaaatg...1934...tctatcttccag atgccaac
D.Ana agcaggag gtaagtgtcgct...2865...ctcacttgcaatggaacccCATTccAGCAAttTAGCgACAAatGAGCaaattaatttgaataaaatg...2032...cttctatcttccag atgccaac
D.Gri tgggtggag gtaagtgtcgac...2616...-----gaaacccattcgaacaattTAGCgACAAatGAGCaaattaatttcaataaaatg...2294...tgtatcttgcag atgccaat
D.Moj tgggtggag gtaagtgtcaat...2623...-----gaaacccattccagcaattTAGCgACAAatGAGCaaattaatttgaataaaatg...2287...tctctcttccag atgccaat
D.Per cgggtggag gtaagtgtcgcc...2718...-----gaaacccattccagcaattTAGCgACAAatGAGCaaattaatttgaataaaatg...2192...ctccacttccag atgccaat
D.Pse cgggtggag gtaagtgtcgcc...2755...-----gaaacccattccagcaattTAGCgACAAatGAGCaaattaatttgaataaaatg...2155...ctccacttccag atgccaat
D.Vir tgggtggag gtgagtgtcaac...2663...-----gaaacccattccagcaattTAGCgACAAatGAGCaaattaatttgaataaaatg...2247...tctctcttccag atgccaat
D.Yak cgggtggag gtaagtgtcgct...2711...-----gaaacccattccaacaattTAGCgACAAatGAGCaaattaatttgaataaaatg...2199...tctatcttccag atgccaac
* **** ** ***** ***** ** **

```

id=17616 gene=FBgn0000492 name=Dr segment=chr3R.25383568.25389874.1 type=IN VIEW

Figure 89: CS=10



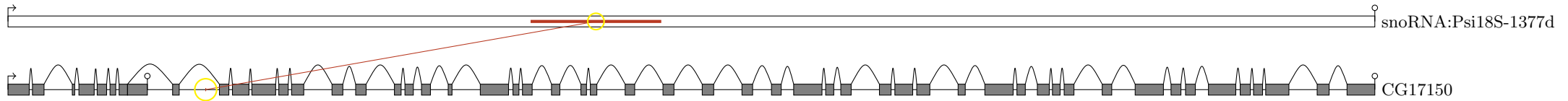
D.Mel	---tgtgaaCT	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaat
D.Sim	---tgtgaaCT	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Sec	---tgtgaaCT	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Ana	caactgta---	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Gri	-aacggcga--	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Moj	ttacatta--	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Per	-tatatccg--	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Pse	-tatatccg--	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
D.Vir	agccaagc---	CCGTTCTGTGTATTTC	gctaagcgattacctaagct...	87...	tgcgccacattc	atgtcaac
		***** **			**	

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Mel	atttacag	gtaagaaatatt...305...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Sim	atttacag	gtaagaaatatt...301...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Sec	atttacag	gtaagaaatatt...301...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Ana	atctacag	gtgagacttgaa...256...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Gri	atctacag	gtgagacttgaa...451...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Moj	atctacag	gtgagacttgaa...206...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Per	atttacag	gtaagaaaggac...246...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Pse	atttacag	gtaagaaaggac...229...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
D.Vir	atctacag	gtgagacttgaa...180...	-gcgcacgctctaaca	GAATA	ttCACAG	AACGGAGg
	** ** ** *	** **	*****	*****	*****	***** *

id=130893 gene=FBgn0022764 name=Sin3A segment=chr2R.8469445.8469793.-1 type=IN

Figure 90: CS=11.7



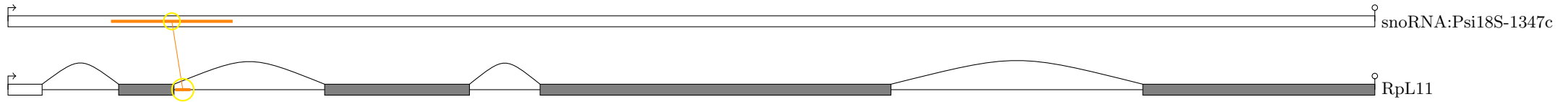
D.Me1	tgtgaac-t	ccgttcttgtgttatttcgctaagcgattacctaagctc-----agcggat-----	TGTCAAACA	AACGT	agattaact-----gccgctaataca...45...tgcgccacatt--c	atgtcaat	
D.Sim	tgtgaac-t	ccgttcttgtgttatttcgctaagcgattacctaagctc-----agcggat-----	TGTCAAACA	AACGT	agattaact-----gccgctaataca...45...tgcgccacatt--c	atgtcaac	
D.Sec	tgtgaac-t	ccgttcttgtgttatttcgctaagcgattacctaagctc-----agcggat-----	TGTCAAACA	AACGT	agattaact-----gccgctaataca...45...tgcgccacatt--c	atttcaac	
D.Ere	ctgatac-a	ccgttcttgtgtttttcgtggtgtctcaccaaaacc-----agtgat-----	TGTCAAACA	AACGT	aaatt-aat-----ggcagctatcac...49...--cgccacattacc	acgtcttc	
D.Ana	caactgt-a	ccgttcttgtgttattttgctaggtgt-----ttcatcctacctaagtgtat-----	TGTCAAACA	AACGC	agaat-aatcaccaggcagct-----..54...cgcgccatatt--t	ttgtcggc	
D.Gri	-aacggcga	ccgttcttgtgttatttgcgaatttagataactcgttc-----	AGTGA	TGTCAAACA	AACGC	CATT-aagtaccaccttactccata...45...--ggttacatgcc	ctctccat
D.Moj	ttacatt-a	ccgttcttgtgttatttcgctaatttgaactcccattc-----	AGCG	TGTCAAACA	AACGC	acagaaaattccaagtcagc-----..52...ctggccacatt--c	tatttaac
D.Pse	tatatcc-g	ccgttcttgtgttatttcactggactcaccttatagtc-----tgtgat-----	TGTCAAACA	AACGT	acagtaaac-tcaaagcaact-----..56...--tgctacagagta	atcccact	
D.Vir	agccaag-c	ccgttcttgtgttatttcctgaatttatctctctaac-----agaggA-----	TGTCAAACA	AACGC	aaagtgaataacaagcccgc-----..52...cggccacatg--c	ataccaat	
D.Yak	tgtacac-a	ccgttcttgtgttatttcgctaagcgattacctaagctc-----agcggat-----	TGTCAAACA	AACGT	aaataaat-----gggcgttgaatc...49...tgcgccacatt--t	gtatcctt	
		***** * ** *	***** * *		* * *		

id=17694 gene=FBgn0083048 name=snoRNA:Psi18S-1377d segment=chr3R.26032878.26033013.-1 type=EN

D.Me1	aagaaaag	gt---gagtaactga...420...gatgacaagtgcaggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--ctttg-----..210...aactca-ttacag	agagattg
D.Sim	aggaaaag	gt---gagtaactga...392...gatgacaagtgcaggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--ctttg-----..210...aactca-ttacag	aaagattg
D.Sec	aggaaaag	gt---gagtaactga...385...gatgacaagtgcaggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--ctttg-----..213...aactca-ttacag	aaagattg
D.Ere	aagaaaag	gt---gagtaactgg...419...gatgacaacagcggggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--ctttt-----..210...aactca-ttacag	aaagattg
D.Ana	gggaggag	gt---aagtctcaat...387...gatgacaagtaacggggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--ctttg-----..213...aactca-ttacag	aaattttg
D.Gri	aggaagag	gt---aagttcatgt...707...ccacaatactagaggagcaAATG	GTGTT	gaTGTTT	GACG	tgTGCTccagccgaaagttaggct-----..177...aactcg-ttacag	aaacattg
D.Moj	aggaagag	gtaagaagtta---..266...gaagaggaagaacgaacgc-----	GTGTT	gaTGTTT	GACG	tgTGCTccaa--aa--ctttcggtcagat...444...aactcg-ttacag	aaatattg
D.Pse	acgaagag	gt---aagtcattgt...223...gatgacaagtgcaggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--gtttg-----..322...-actcatttacag	caacattg
D.Vir	aggaagag	gt---aagttcatgt...230...ggggaggttaataaacgc-----	GTGTT	gaTGTTT	GACG	tggtctccagagtaa--ctttcg-----..472...aactcg-ttacag	aaatattg
D.Yak	aggaaaag	gt---gagtaactat...419...gatgacaagtgcaggcgc-----	GTGTT	gaTGTTT	GACG	tgagcgccaaacaaa--ctttg-----..218...aactca-ttacag	aaagattg
	** **	** **	** **	** **	** **	** **	** **

id=26506 gene=FBgn0035581 name=CG17150 segment=chr3L.4865182.4865892.1 type=IN

Figure 91: CS=14.8



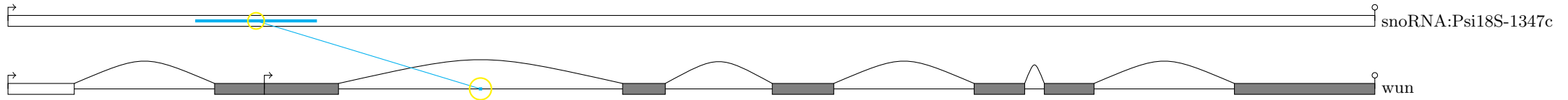
D. Mel	agacatct	agc--AACTccTACCCATTG	gttggtcagattcaaccctt...	96...	agagtcacattg--	ttatttaa
D. Sim	agacttct	agc--AACTccTACCCATTG	gttggtcagatttaaccctt...	96...	agagtcacattg--	ttatctaa
D. Sec	agacttct	agc--AACTccTACCCATTG	gttggtcacatttaaccctt...	96...	agagtcacattg--	ttatttaa
D. Ere	agatttct	ag--CAACTtcTACCCATTG	gttggtcagatttaactctt...	96...	agagtcacaatg--	tcctttaa
D. Ana	aaacttgc	ag--CAACTtcTACCCATTG	gttggtcgaataaatctctt...	249...	agagtcacaatgcc	tcctt--
D. Gri	ttaaatgt	ggc--AACTtcTACCCATTG	gttggtcaaaaataatcca...	99...	agagatacaaat--	atcttgaa
D. Per	--tcctcT	ATAgcAACTtcTACCCATTG	gttggtcaaactagcattca...	99...	agagtcacaaga--	gcattaaa
D. Pse	--tcctcT	ATAgcAACTtcTACCCATTG	gttggtcaaactagcattcg...	99...	agagtcacaaga--	gcattaaa
D. Wil	tagagaat	ggc--AACTtcTACCCATTG	gttggtcaaattaatttatt...	115...	gagggaatagta--	tgattaaa
		*** ***** *			* * *	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829.1 type=EN

D. Mel	cAATGgcG	GTAGGTT	-caaccacaattgctgcacgc----	89...	gttggtttt-cag	gcbgttac
D. Sim	cAATGgcG	GTAGGTT	-caaccacaattgctgcacgc----	89...	gttggtttt-cag	gctgttac
D. Sec	cAATGgcG	GTAGGTT	-taaccacaattgctgcacgc----	89...	gttggtttt-cag	gctgttac
D. Ere	cAATGgcG	GTAGGTTG	-accacaagcgatgcacgca----	92...	-ttgttttg-cag	gctgttac
D. Ana	tAATGacG	GTAGGTTG	---acacgtgggctatgtattct...	123...	cttggtttg-cag	gccgctgc
D. Gri	tAATGgcG	GTAGGTT	---tcttaaaatttt-gtgctat--...	140...	tacaatttg-cag	gcaattgc
D. Per	tAATGgcG	GTAGGTTTATA	cgaaa--ttttgagtggcgtat...	132...	-tgattgtttcag	gccgttgc
D. Pse	tAATGgcG	GTAGGTTTATA	cgaaa--ttttgagtggcgtat...	132...	-tgattgtttcag	gccgttgc
D. Wil	tAATGgcG	GTAGGTT	---tcggaaatttttagtggca----	136...	-tgattatttcag	gccgttgc
	*** **	*****	* *		* * **	** * *

id=79815 gene=FBgn0013325 name=Rpl11 segment=chr2R.15329995-15330122.1 type=IN VIEW

Figure 92: CS=15.75



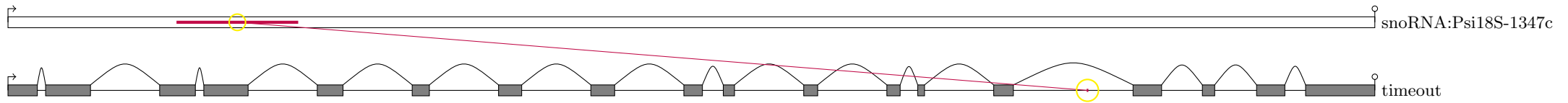
D.Mel	agacatct	agcaactcctac	CCATTGGT	tgGTCAGa	TTCA	-accc-tttttgacacgactaa...	82...	agagtcacattg	ttatttaa
D.Sim	agacttct	agcaactcctac	CCATTGGT	tgGTCAGa	TTTA	-accc-tttttgacacgactaa...	82...	agagtcacattg	ttatctaa
D.Sec	agacttct	agcaactcctac	CCATTGGT	tgGTCAGa	TTTA	-accc-tttttgacacgactaa...	82...	agagtcacattg	ttatttaa
D.Ere	agatttct	agcaacttctac	CCATTGGT	tgGTCAG		-atttaactc-tttttgacacg-----	87...	agagtcacaatg	tcctttaa
D.Gri	ttaaagt	ggcaacttcta	CCATTGGT	tgGTCAA		-aaaataatccattttgagcc-----	90...	agagatacaaat	atcctgaa
D.Per	tcctctat	agcaacttctac	CCATTGGT	tgGTCAA		actagcattcatcgttgatc-----	90...	agagtcacaaga	gcattaaa
D.Pse	tcctctat	agcaacttctac	CCATTGGT	tgGTCAA		actagcattcgctgtgatc-----	90...	agagtcacaaga	gcattaaa
D.Wil	tagagaat	ggcaacttctac	CCATTGGT	tgGTCAA		---attaatttatttgatacga----	106...	gaggaatagta	tgattaaa
D.Yak	agattttt	agcaacttcaac	CCATTGGT	tgGTCAGa	TTTA	-accctttttgacacgacta-...	83...	agagtcacaatg	tcctttaa
	*	*****	*	*****	*	***		* * *	* **

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684_14030829_1 type=EN

D.Mel	gctctgcg	gtaagtacaaaa...	3271...	--gcgtctttttattattgaaa	TGAAC	TTGACACCAa	ATGG	---actgtgtacggtt---	ttgtttg...	1400...	gtttgcctttag	ctggattt
D.Sim	gctctgcg	gtaagtacaaaa...	3200...	cggcgctc-tttattattgaaa	TGAAC	TTGACACCAa	ATGG	---acagtgtattggt---	ttgtttg...	1328...	tttcgccttcag	ctggcttt
D.Sec	gctctgcg	gtaagtacaaaa...	3157...	cggcgctc-tttattattgaaa	TGAAC	TTGACACCAa	ATGG	---acactgtactggt---	ttgtttg...	1346...	tttcgccttcag	ctggcttt
D.Ere	gctatgcg	gtgagtacaaat...	3041...	-----tctttaaattgaaacgaac	TTGACACCAa	ATGG	---acagtgtttggt---	tgctatg...	1303...	tttcgccttcag	ctggcttt	
D.Gri	gctttgcg	gtgagtgttgc...	2554...	-----taagcattattgaaatggac	TTGACACCAa	ATGGG	acgcaaagcactttcaaaaa-----	2356...	acttattttcag	ttggcttt	ttggcttt	
D.Per	actctgcg	gtaagctttag...	3335...	-----tctttattattgaaatgaac	TTGACACCAa	ATGG	acagcagcgtaccggt---	tggt---	1576...	ttacgctttcag	ttggcttt	
D.Pse	actctgcg	gtaagctttag...	3332...	-----tctttattattgaaatgaac	TTGACACCAa	ATGG	aaagcagcgtaccggt---	tggt---	1579...	ttacgctttcag	ttggcttt	
D.Wil	actttgcg	gtaagttttttc...	3828...	-----cttttattattgaaatgaac	TTGACACCAa	ATGG	---tcaggtta---	tcaaatgcgcg...	1083...	tttcaattgcag	ttggcttt	
D.Yak	gctctgcg	gtaagtacaatg...	3267...	cggcgctc-tttattattgaaa	TGAAC	TTGACACCAa	ATGG	---acagtgttttgtt---	tgccatg...	1332...	tttcgccttcag	ccggcttt
	** ** **	** ** *		*****	*	*****	*	*	*		* **	** ** *

id=55851 gene=FBgn0016078 name=wun segment=chr2R.5291964_5296717_-1 type=IN VIEW

Figure 93: CS=10.8



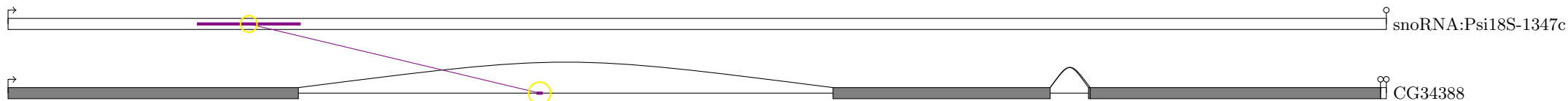
D. Mel	agacatct	agcaactcct	ACCCATTGGT	TGGT	cagatt-caaccctttttgac-...90...agagtcacattg--	ttatttaa
D. Sim	agacttct	agcaactcct	ACCCATTGGT	TGGT	cagatt-taaccctttttgac-...90...agagtcacattg--	ttatctaa
D. Sec	agacttct	agcaactcct	ACCCATTGGT	TGGT	cacatt-taaccctttttgac-...90...agagtcacattg--	ttatttaa
D. Ere	agatttct	agcaacttct	ACCCATTGGT	TGGT	cagatt-taactctttttgac-...90...agagtcacaatg--	tccttaa
D. Ana	aaacttgc	agcaacttct	ACCCATTGGT	TGGT	cgaata-aatctcttttcgac-...243...agagtcacaatgcc	tcctt--
D. Gri	ttaaatgt	ggcaacttct	ACCCATTGGT	TGGT	caaaaaataatccattttga--...93...agagatacaat--	atcttgaa
D. Moj	ttaaatat	ggcaacttct	ACCCATTGGT	TGGT	caaatt--attatttttgaga...132...aattatatatttt	ttttt--
D. Per	tcctctat	agcaacttct	ACCCATTGGT	TGGT	caaact--agcattcatcgttg...93...agagtcacaaga--	gcattaa
D. Pse	tcctctat	agcaacttct	ACCCATTGGT	TGGT	caaact--agcattcgtcgttg...93...agagtcacaaga--	gcattaa
D. Wil	tagagaat	ggcaacttct	ACCCATTGGT	TGGT	caaatt--aattattttgata...109...gaggaatagta--	tgattaa
D. Yak	agattttt	agcaacttca	ACCCATTGGT	TGGT	cagatt-taaccctttttgac-...91...agagtcacaatg--	tccttaa
		*****	*****	*	*	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684_14030829_1 type=EN

D. Mel	tttttcag	gtaagataatca...1679...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...298...tccacatccaag	gccaagct
D. Sim	ttttccag	gtgagataatca...1667...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...295...ctctccacacag	gccaagct
D. Sec	ttttccag	gtgagataatca...1562...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...294...gctctccgcag	gccaagct
D. Ere	tttttcag	gtgagataatca...1682...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...294...ctctccacgag	gccaagct
D. Ana	tgtttcag	gtgagtggaaatg...1373...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...338...cctattcccag	gccaagct
D. Gri	tataccag	gtaagtgtggga...1436...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...320...tcctttccacag	gccaagct
D. Moj	tctaccag	gtgagtgaacca...2110...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...380...tctgctacacag	gccaagct
D. Per	tcttcag	gtgagccggagc...1660...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...322...ctctaccacag	gccaagct
D. Pse	tcttcag	gtgagccggagc...1581...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...323...ctctaccacag	gccaagct
D. Wil	tctatcag	gtgagtgtattg...1149...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...399...atccatccacag	gccaagct
D. Yak	tatttcag	gtgagataatct...1604...gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...300...ctctccacacag	gccaagct
	* * **	** **	*****	*****	* **

id=10654 gene=FBgn0038118 name=timeout segment=chr3R.8984826_8986879_1 type=IN

Figure 94: CS=11.88



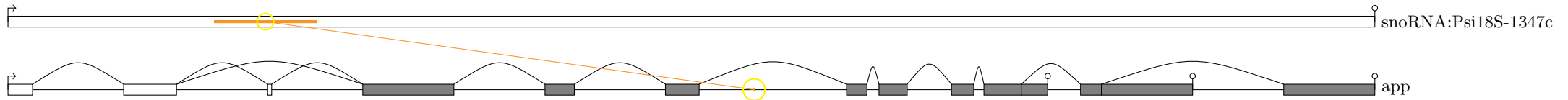
D. Mel	agacatct	agcaactccta	CCCATTGGTTGGT	caga-ttcaaccctttttgac-...90...agagtcacattg--	ttatttaa
D. Sim	agacttct	agcaactccta	CCCATTGGTTGGT	caga-tttaaccctttttgac-...90...agagtcacattg--	ttatctaa
D. Sec	agacttct	agcaactccta	CCCATTGGTTGGT	caca-tttaaccctttttgac-...90...agagtcacattg--	ttatttaa
D. Ere	agatttct	agcaacttcta	CCCATTGGTTGGT	caga-tttaactcctttttgac-...90...agagtcacaatg--	tcctttaa
D. Ana	aaacttgc	agcaacttcta	CCCATTGGTTGGT	cgaa-taaatcctttttcgac-...243...agagtcacaatg--	tccttt--
D. Gri	ttaaatgt	ggcaacttcta	CCCATTGGTTGGT	caaaaaataatccattttga--...93...agagatacaat--	atctgaa
D. Moj	ttaaatat	ggcaac	TTATaCCCATTGGTTGGT	caaa-tt-attatttttgaga...132...aattatatatttt	tttttt--
D. Pse	tcctctat	agcaacttcta	CCCATTGGTTGGT	caaa-ctagcattcgtcgtg...93...agagtcacaaga--	gcattaaa
D. Wil	tagagaat	ggcaacttcta	CCCATTGGTTGGT	caaa-tt-aattatttttgata...109...gagggaaatagta--	tgattaaa
D. Yak	agatTTTT	agcaac	TTCAaCCCATTGGTTGGT	caga-tttaaccctttttgac-...91...agagtcacaatg--	tcctttaa
		*****	*****	* * *	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684_14030829_1 type=EN

D. Mel	gcgccag	gtaag---gagtcca-...370...gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga-----...761...cctcaccatcag	gaacaaag
D. Sim	gcgccag	gtaag---gaatcca-...401...gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga-----...755...cctctcgtcag	gaacaaag
D. Sec	gcgccag	gtaag---gaatcca-...391...gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga-----...760...tctctcatcag	gaacaaag
D. Ere	gcgccag	gtaa---gagtccag-...372...gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccg-----...749...ccgcctcatcag	gaacaaag
D. Ana	gcagctag	gtaag---gaatgcg-...261...gtcgtcgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-gtcagtaccgag-----...709...taaccttttcag	gaacaaag
D. Gri	gcggtcag	gtgagctaagct----...292...gtcgacaaaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagttcgac-----...1169...attttagacag	aaatagag
D. Moj	gcagccag	gtgagtgagga----...276...gtcggcggaaaacacgcaaa	ACCAATTAATGGG	cGTGAAAAA-atcagtgagac-gacga...1382...caccttcaacag	aaccagag
D. Pse	gccgccag	gtaag---cggcagc-...301...gtcggccagaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagttagag-----...1344...ttcatttaaag	aaacaaag
D. Wil	gcgccag	gtgag---aggacct-...258...gtcggccagaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaacaacaaagcca-----...954...gttttctctag	aaacaaag
D. Yak	gcgccag	gtaag---atgtggg-...397...gtcgactgggaacacgcaaa	ACCAATTAATGGG	cGTGAAAAA-atcagtaccgacgattg...776...cctcctcatcag	gaacaaag
	** * **	** * **	****	*****	** * * **

id=10415 gene=FBgn0085417 name=CG34388 segment=chr3R.10245044_10246251_1 type=IN

Figure 95: CS=10.8



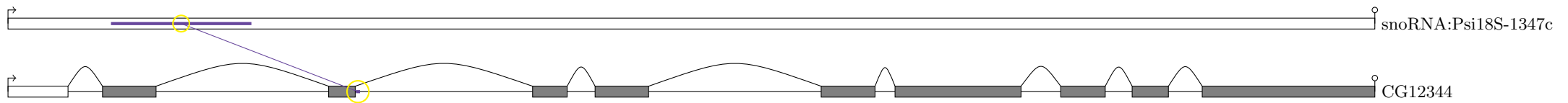
D. Mel	agacatct	agcaactcctacc	ATTGGTTGGTCAGA	ttca-acc	-ttttgacacga...	86...	agagtcacattg	ttatttaa
D. Sim	agacttct	agcaactcctacc	ATTGGTTGGTCAGA	ttta-acc	-ttttgacacga...	86...	agagtcacattg	ttatctaa
D. Sec	agacttct	agcaactcctacc	ATTGGTTGGTCAGA	cattta-acc	-ttttgacac--...	88...	agagtcacattg	ttatttaa
D. Ere	agatttct	agcaacttctacc	ATTGGTTGGTCAGA	ttta-actc	-ttttgacacga...	86...	agagtcacaatg	tccttaa
D. Gri	ttaaagt	ggcaacttctacc	ATTGGTTGGTCAGA	aaaaat	-aatccattttgagc---	91...	agagatacaaat	atcttgaa
D. Moj	ttaaat	ggcaacttataacc	ATTGGTTGGTCAGA	aatt---	attattttttgagaca-	130...	aattatatatt	ttttttt
D. Per	tcctctat	agcaacttctacc	ATTGGTTGGTCAGA	aactagcatt	catcgttgat---	91...	agagtcacaaga	gcattaa
D. Pse	tcctctat	agcaacttctacc	ATTGGTTGGTCAGA	aactagcatt	ctcgttgat---	91...	agagtcacaaga	gcattaa
D. Wil	tagagaat	ggcaacttctacc	ATTGGTTGGTCAGA	aatt---	aattttttgatacg-	107...	gagggaaatagta	tgattaa
D. Yak	agattttt	agcaacttcaacc	ATTGGTTGGTCAGA	ttta-acc	ttttttgacac--...	88...	agagtcacaatg	tccttaa
	*	*****	*****	*	*	****	*	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684_14030829_1 type=EN

D. Mel	gtccctgg	gtgagtagtgat...	253...	--caacag-----	cctctcgtcgtctc-	TCTGACTt	TAACcCAAT	tc--caa---	cg-gcaaccgctgagg...	1232...	ctctctttgcag	gtgggaaa
D. Sim	gtccctgg	gtgagtagtgat...	253...	accaacag-----	cctctcgtcgtctc-	TCTGACTt	TAACcCAAT	tc--caa---	cg-gcaaccgctgagg...	1247...	ctctctttgcag	gtgggaaa
D. Sec	gtccctgg	gtgagtagtgat...	253...	--caacag-----	cctctcgtcgtctc-	TGACTt	TAACcCAAT	tc--caa---	cg-gcaaccgctgagg...	1227...	ctctctttgcag	gtgggaaa
D. Ere	gtccctgg	gtgagtagtgat...	267...	accaacag-----	cctctcgtcgtctc-	TCTGACTt	TAACcCAAT	tc--caa---	cg-gcaaccgctgagg...	1215...	ctctctttgcag	gtgggaaa
D. Gri	gtccctgg	gtaagtacatag...	91...	ttgccag-----	cagcggcagcgc-	TGACTt	TAACcCAAT	ttcgg---	cg-ccaactgctgtgc...	1292...	gtctctttgcag	gtgggcaa
D. Moj	gtccctgg	gtaagtgcgagt...	31...	--ccatcga	aaacaactttcac-----	TGACTt	TAACcCAAT	tcctg---	cgccaactgctgag-	1148...	ctctctttccag	gtgggcaa
D. Per	gtccctgg	gtaagtcaagga...	192...	-gcactg-----	tgccactgcgggctc-	TGACTt	TAACcCAAT	ttccacag---	cg-ccaaccgctga-	925...	ccctcgttgag	gtgggaaa
D. Pse	gtccctgg	gtaagtcaagga...	213...	-gcactg-----	tgccactgcgggctc-	TGACTt	TAACcCAAT	ttccacag---	cg-ccaaccgctga-	934...	ccctcgttgag	gtgggaaa
D. Wil	gtccctgg	gtaagttgacaa...	233...	-----	tgctccgctctgttgggctc-	TGACTt	TAACcCAAT	ttttgagtttcg-	ccaaccgc-----	1630...	gtatctttcag	gtgggaaa
D. Yak	gtccctgg	gtgagtagtgat...	264...	----acag-----	cctctcgtcgtcgtc-	CTGACTt	TAACcCAAT	tc--caa---	cg-gcaaccgctgagg...	1253...	ctctctttgcag	gtgggaaa
	*****	** **				*****		** **	** **		* ** **	*****

id=69130 gene=FBgn0260941 name=app segment=chr3L.12207152_12208717_-1 type=IN

Figure 96: CS=13.8



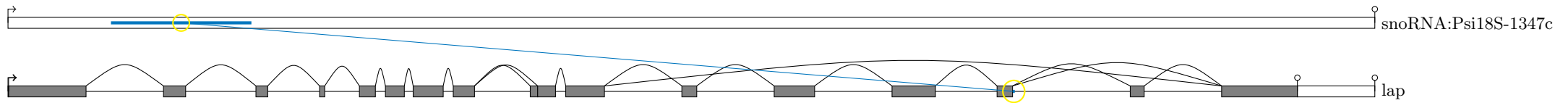
D.Mel	agacatct	agCAACTccTACCCaTTGGT	tggtcagattcaaccctttt...94...agagtcacattg--	ttatttaa
D.Sim	agacttct	agCAACTccTACCCaTTGGT	tggtcagatttaaccctttt...94...agagtcacattg--	ttatctaa
D.Sec	agacttct	agCAACTccTACCCaTTGGT	tggtcacatttaaccctttt...94...agagtcacattg--	ttatttaa
D.Ere	agatttct	agCAACTtcTACCCaTTGGT	tggtcagatttaactctttt...94...agagtcacaatg--	tccttaa
D.Ana	aaacttgc	agCAACTtcTACCCaTTGGT	tggtcgaataaatctctttt...247...agagtcacaatgcc	tccttt--
D.Gri	ttaaatGT	GGCAACTtcTACCCaTTGGT	tggtcaaaaaataatccatt...97...agagatacaaat--	atctgaa
D.Moj	ttaaatat	ggCAACTtaTACCCaTTGGT	tggtcaaattattatttttt...136...aattatatattttt	tttttt--
D.Per	tcctctat	agCAACTtcTACCCaTTGGT	tggtcaaactagcattcatc...97...agagtcacaaga--	gcattaaa
D.Pse	tcctctat	agCAACTtcTACCCaTTGGT	tggtcaaactagcattcgtc...97...agagtcacaaga--	gcattaaa
D.Wil	tagagaat	ggCAACTtcTACCCaTTGGT	tggtcaaattaattttttt...113...gagggaatagta--	tgattaaa
		*****	***** * * * *	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829_1 type=EN

D.Mel	tGTCAAGG	GTAAGTTG	-aactcca--accaatagcaatg-...1371...gatttattgcag	aaatacga
D.Sim	tGTCAAGG	GTAAGTTG	-aactcca--cccaatagcaatg-...1977...gatttattgcag	aaatacga
D.Sec	tGTCAAGG	GTAAGTTG	-aactcca--cccaatagcaatg-...1327...gatttattgcag	aaatacga
D.Ere	tGTCAAGG	GTAAGTTG	-aactcca--ccc-atagccccac...1318...gatttattgcag	aaatacga
D.Ana	tGTCAAGG	GTAAGTT	-aaa---caggccccgccacaga-...1323...gattcgtttcag	agatacga
D.Gri	tGTCAAGG	GTAAGTTTAT	-ttctcttctctcttctctc...1634...tttgttttcag	aaatgcga
D.Moj	tGTCAAGG	GTAAGTTG	gcaatatatttttataccc---...1845...ttttaattgcag	aaatgcgt
D.Per	tGTCAAGG	GTAAGTT	--aaaccagccccagaggcca---...1054...gatttattgcag	aaatacga
D.Pse	tGTCAAGG	GTAAGTT	--aaaccagccccagaggcgg---...1033...gatttattgcag	aaatacga
D.Wil	tGTCAAGG	GTAAGTT	----tttgaatttctctctccac...849...tctatccaacag	aaatacgc
	*****	*****	* ** *	* ** *

id=56400 gene=FBgn0033558 name=CG12344 segment=chr2R.6719219-6720629_-1 type=IN VIEW

Figure 97: CS=13.8



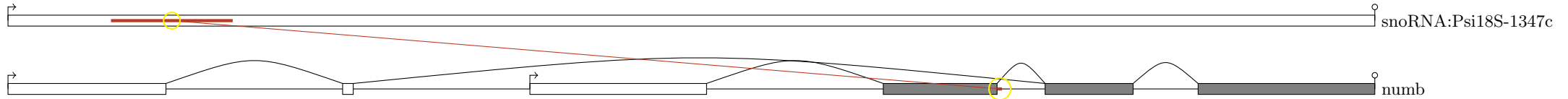
D.Mel	agacatct	agcAACTccTACCcATTGGttggtcagattcaacccttt...95...agagtcacattg--	ttatttaa
D.Sim	agacttct	agcAACTccTACCcATTGGttggtcagattcaacccttt...95...agagtcacattg--	ttatctaa
D.Sec	agacttct	agcAACTccTACCcATTGGttggtcacatttaacccttt...95...agagtcacattg--	ttatttaa
D.Ere	agatttct	agcAACTtcTACCcATTGGttggtcagatttaactcttt...95...agagtcacaatg--	tcctttaa
D.Ana	aaacttGC	AGcAACTtcTACCcATTGGttggtcgaataaatctcttt...248...agagtcacaatgcc	tccttt--
D.Gri	ttaaatgt	ggcAACTtcTACCcATTGGttggtcaaaaaataatccat...98...agagatacaaat--	atcttgaa
D.Moj	ttaaatat	ggcAACTtaTACCcATTGGttggtcaaatattattttt...137...aattatatatttt	tttttt--
D.Per	tcctctat	agcAACTtcTACCcATTGGttggtcaaaactagcattcat...98...agagtcacaaga--	gcattaaa
D.Pse	tcctctat	agcAACTtcTACCcATTGGttggtcaaaactagcattcgt...98...agagtcacaaga--	gcattaaa
D.Wil	tagagaat	ggcAACTtcTACCcATTGGttggtcaaaataattatttt...114...gaggaatagta--	tgattaaa
		***** ***** * *	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829.1 type=EN

D.Mel	gtCCAATG	GTGAGTT-ttgcctac-tctaactcttct----	...1137...tgcaatacgtag	gcacatgg
D.Sim	gtCCAATG	GTGAGTT-ttgcctac-tctaactcttct----	...1126...tgcaatacgtag	gcacatgg
D.Sec	gtCCAATG	GTGAGTT-ttgcctac-tctaactcttct----	...1116...tgcaatacgtag	gcacatgg
D.Ere	gtCCAATG	GTGAGTT-ttgcctac-tctaactcttct----	...1103...tgcaatacgtag	gcacatgg
D.Ana	gtCCAATG	GTGAGTTTTCct-ac-tctaactctactctc..	1144...aaaaaacgtag	gcacatgg
D.Gri	gtCCAATG	GTGAGTT-atgacaac---taactctctctc--	...1281...atgtatacctag	gcacatgg
D.Moj	gtCCAATG	GTGAGTT-atgaccacagctaactctct----	...1265...atgcatacatag	gcacatgg
D.Per	gtCCAATG	GTGAGTT-atgcc-ac-tctaact---ctctaa...	1143...atattaatatag	gcacatgg
D.Pse	gtCCAATG	GTGAGTT-atgcc-ac-tctaact---ctctaa...	1152...atattaatatag	gcacatgg
D.Wil	gtCCAATG	GTGAGTT-ttga--ac-tctaactctaact--	...1431...tgtaatcggtag	gcacatgg
	*****	***** ** *** *	***	*****

id=112207 gene=FBgn0086372 name=lap segment=chr3R.3022116-3023291.1 type=IN

Figure 98: CS=12



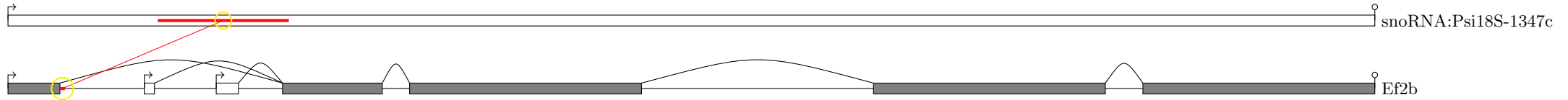
D.Mel	agac-----ATCT	AGcAACTccTACCCATT	ggttggtcagattcaaccct...97...agagtcacattg--	ttatttaa
D.Sim	agacttctagc--	---AACTccTACCCATT	ggttggtcagatttaaccct...97...agagtcacattg--	ttatctaa
D.Sec	agacttctagc--	---AACTccTACCCATT	ggttggtcagatttaaccct...97...agagtcacattg--	ttatttaa
D.Ere	agatttctagc--	---AACTtcTACCCATT	ggttggtcagatttaactct...97...agagtcacaatg--	tcctttaa
D.Ana	aaacttgtagc--	---AACTtcTACCCATT	ggttggtcgaataaatctct...250...agagtcacaatgcc	tccttt--
D.Gri	ttaaatgtggc--	---AACTtcTACCCATT	ggttggtcaaaaaataatcc...100...agagatacaaat--	atcttgaa
D.Per	tcctctatagc--	---AACTtcTACCCATT	ggttggtcaaaactagcattc...100...agagtcacaaga--	gcattaaa
D.Pse	tcctctatagc--	---AACTtcTACCCATT	ggttggtcaaaactagcattc...100...agagtcacaaga--	gcattaaa
D.Wil	-----tagagaAT	GGCAACTtcTACCCATT	ggttggtcaaatatttat...116...gaggggaatagta--	tgattaaa
		**** *****	* * *	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829.1 type=EN

D.Mel	aaAATGgG	GTAGGTTT	TAGAT	acgatccgcagttccacaga...91...cttatcccatag	aaatccgc
D.Sim	aaAATGgG	GTAGGTT	-----	ttgaaactccacttagatac...115...cttatcccatag	aaatccgc
D.Sec	aaAATGgG	GTAGGTT	-----	ttgaaactccacttagatac...109...cttatcccatag	aaatccgc
D.Ere	aaAATGgG	GTAGGTT	-----	ttgaaactccatttagatac...107...cttatcccatag	aaatccgc
D.Ana	aaAATGgG	GTAGGTT	-----	tcctcattccattccatcca...124...tatgccctctag	aaatccgc
D.Gri	agAATGgG	GTAGGTT	-atcaaacacaaacgagggttg-----	...131...ccccaccacag	aaatccgc
D.Per	aaAATGgG	GTAGGTT	-----	tccccctctctctgcccacc...92...tcttctgcatag	aaatccgc
D.Pse	aaAATGgG	GTAGGTT	-----	ccccccccccccccccccct...114...tcttctgcatag	aaatccgc
D.Wil	agAATGgG	GTAGGTTG	cTCAT	atataaagggttgcaaaa...92...tttttatatag	aaatccgc
	* *****	*****		** ***** **	

id=103499 gene=FBgn0002973 name=numB segment=chr2L.9460369-9460504.1 type=IN

Figure 99: CS=12.42



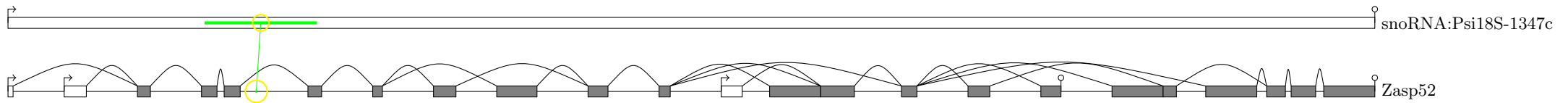
D.Mel	agacatct	agcaactCCTACcCATTggTTGGtcag--attcaaccctttttga...91...agagtcacattg--	ttatttaa
D.Sim	agacttct	agcaactCCTACcCATTggTTGGtcag--atttaaccctttttga...91...agagtcacattg--	ttatctaa
D.Sec	agacttct	agcaactCCTACcCATTggTTGGtcag--atttaaccctttttga...91...agagtcacattg--	ttatttaa
D.Ere	agatttct	agcaactTCTACcCATTggTTGGtcag--atttaactcctttttga...91...agagtcacaatg--	tccttaa
D.Ana	aaacttgc	agcaactTCTACcCATTggTTGGtcga--ataaatctccttttcga...244...agagtcacaatgcc	tcctt--
D.Gri	ttaaatgt	ggcaactTCTACcCATTggTTGGtcaaaaaataatccattttg--...94...agagatacaaat--	atcttgaa
D.Per	tcctctat	agcaactTCTACcCATTggTTGGtcaa--actagcattcatcgtt...94...agagtcacaaga--	gcattaaa
D.Pse	tcctctat	agcaactTCTACcCATTggTTGGtcaa--actagcattcatcgtt...94...agagtcacaaga--	gcattaaa
D.Wil	tagagaat	ggcaactTCTACcCATTggTTGGtcaa--attaatttattttgat...110...gagggaaatagta--	tgattaaa
		*****	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684_14030829_1 type=EN

D.Mel	cCAAAATG	GTAGGtgcccaagt	cagaaataat...145...tatggtgaaatg	caagacaa					
D.Sim	cCAAAATG	GTAGGtgcccaatgtccgtaataat...151...ggtggtgaaatg	caagacaa	caagacaa					
D.Sec	cCAAAATG	GTAGGtgcccaatgtccgtaataat...140...ggtggtgaaatg	caagacaa	caagacaa					
D.Ere	cCAAAATG	GTAGGtgcccaagt	tccgaaataat...126...ggtggtgaaata	caagacaa					
D.Ana	cCAAAATG	GTAGGtgcaacttatggaaataac...189...cgttgtgaaatg	caagacaa	caagacaa					
D.Gri	cCAAAATG	GTAGGtgccaataatccacattaat...178...actgatgaaatg	caagacaa	caagacaa					
D.Per	cCAAAATG	GTAGGtggaataatggataatatt...161...tctggtgaaatg	caagacaa	caagacaa					
D.Pse	cCAAAATG	GTAGGtggaataatggataatatt...173...tctggtgaaatg	caagacaa	caagacaa					
D.Wil	cCAAAATG	GTAGGtgtaactaat	taaaacaatg...197...aatggtgaaatg	caagagac					
	*****	*****	*	*	*	*	*****	****	*

id=119369 gene=FBgn0000559 name=Ef2b segment=chr2L.21681857_21682038_-1 type=IN

Figure 100: CS=13.5



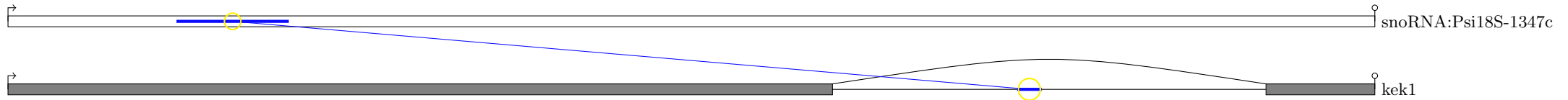
D. Mel	agacatct	agcaactcctacc	CATTg	GTTGGTCA	---	gattcaacc-	ttttgacac	-----	...88..	agagtcacattg	ttatctaa	
D. Sim	agacttct	agcaactcctacc	CATTg	GTTGGTCA	---	gatttaacc-	ttttgacac	-----	...88..	agagtcacattg	ttatctaa	
D. Sec	agacttct	agcaactcctacc	CATTg	GTTGGTCA	CATT	---	taacc-	ttttgacacgact	---	...84..	agagtcacattg	ttatctaa
D. Ere	agatttct	agcaacttctacc	CATTg	GTTGGTCA	---	gatttaactc-	ttttgacac	-----	...88..	agagtcacaatg	tccttaa	
D. Gri	ttaaattgt	ggcaacttctacc	CATTg	GTTGGTCA	---	aaaaataatcc-	attttgagc	-----	...91..	agagatacaaat	atcttgaa	
D. Moj	ttaaattgt	ggcaacttctacc	CATTg	GTTGGTCA	aATTA	-ttat---	ttttgagacaattaa	...	125..	aattatatattt	ttttttt	
D. Per	tcctctat	agcaacttctacc	CATTg	GTTGGTCA	---	aactagcattcatcg	ttgat	-----	...91..	agagtcacaaga	gcattaaa	
D. Pse	tcctctat	agcaacttctacc	CATTg	GTTGGTCA	---	aactagcattcatcg	ttgat	-----	...91..	agagtcacaaga	gcattaaa	
D. Wil	tagagaat	ggcaacttctacc	CATTg	GTTGGTCA	aATTA	attta---	ttttgatacagctaa	...	102..	gagggatagta	tgattaaa	
D. Yak	agattttt	agcAACTCAA	ccCATTg	GTTGGTCA	---	gatttaacc	tttttgaca	-----	...89..	agagtcacaatg	tccttaa	
	*	*****	*****	*****		****				* *	*	

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829_1 type=EN

D. Mel	gtcccttc	gtgagtgtacta	...112..	-----	tgatgctgacgtcctgatga	TGACCAATGATG	ttgatagttagtccttgact	-----	...993..	-cttgtttttcag	tccaacgg	
D. Sim	gtcccttc	gtgagtgtacta	...112..	-----	tgatgctgacgtcctgatga	TGACCAATGATG	ttgatagttagtccttgact	-----	...957..	-cttgtttttcag	tccaacgg	
D. Sec	gtcccttc	gtgagtgtacta	...107..	---	ccagctgatgccgacgtcct	GATG	TGACCAATGATG	ttgatagttagtccttgact	-----	...1010..	-catgtttttcag	tccaacgg
D. Ere	gtcccttc	gtgagtgtacta	...112..	-----	tgatgctgacgtcctgatga	TGACCAATGATG	ttgatagttagtccttgact	-----	...916..	-tttttttttag	tccaacgg	
D. Gri	gtccattt	gtaagtcaacta	...208..	---	aactgacactgacgtgctga	---	TGACCAATGATG	ttgatagttggtctccagg	-----	...722..	-ggacctggcag	gccaacgg
D. Moj	gtccattt	gtaagttacaaa	...483..	---	cgcaattacaggagacgtgc	---	TGATGACCAATGATG	ttgatagttagtcctcagg	-----	...709..	-ttgttgtgcag	gccaacgg
D. Per	gtccattt	gtaagtttacta	...234..	---	ctggtgatg-tgtcctgatga	TGACCAATGATG	ttgatagttggaatccttcc	-----	...771..	ctatg-atttcag	gccaatgg	
D. Pse	gtccattt	gtaagtttacta	...234..	---	ctggtgatg-tgtcctgatga	TGACCAATGATG	ttgatagttggaatccttcc	-----	...764..	ctatg-atttcag	gccaatgg	
D. Wil	gtccattt	gtaagtttacta	...92..	---	gaaattccctaaaacttgc	---	TGATGACCAATGATG	ctgatagttagtcagtcct	-----	...889..	-tatgaatttcag	gccaatgg
D. Yak	gtcccttc	gtgagtgtacta	...122..	-----	tgatgctgacgtcctgatga	TGACCAATGATG	TGATGATG	agtccttgactgccacact	...	952..	-ttttttttcag	gccaacgg
	**** **	** ***	*		**	*****	*****	*		**	**** **	

id=69812 gene=FBgn0083919 name=Zasp52 segment=chr2R.11669412-11670592_-1 type=IN VIEW

Figure 101: CS=10.8



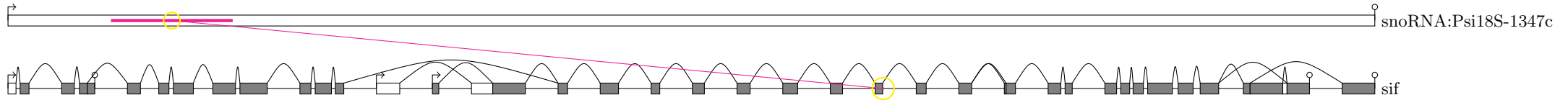
D.Mel	agacatct	agcaactcc	TACCCATTGg	TGGT	cag-attcaaccctttttgac-...	90...	agagtcacattg	ttatctaa
D.Sim	agacttct	agcaactcc	TACCCATTGg	TGGT	cag-atttaaccctttttgac-...	90...	agagtcacattg	ttatctaa
D.Sec	agacttct	agcaactcc	TACCCATTGg	TGGT	cac-atttaaccctttttgac-...	90...	agagtcacattg	ttatctaa
D.Ere	agatttct	agcaacttc	TACCCATTGg	TGGT	cag-atttaactctttttgac-...	90...	agagtcacattg	ttatctaa
D.Gri	ttaaattgt	ggcaacttc	TACCCATTGg	TGGT	caaaaaataatccattttga-...	93...	agagatacaaat	atcttgaa
D.Moj	ttaaattgt	ggcaacttat	TACCCATTGg	TGGT	caa-att-attatttttgaga...	132...	aattatatattt	ttttttt
D.Per	tcctctat	agcaacttc	TACCCATTGg	TGGT	caa-act-aggcattcatcgttg...	93...	agagtcacaaga	gcattaaa
D.Pse	tcctctat	agcaacttc	TACCCATTGg	TGGT	caa-act-aggcattcatcgttg...	93...	agagtcacaaga	gcattaaa
D.Wil	tagagaat	ggcaacttc	TACCCATTGg	TGGT	caa-att-aattattttgata...	109...	gagggaaatagta	tgattaaa
D.Yak	agatTTTT	agcaacttca	TACCCATTGg	TGGT	cag-atttaaccctttttgac-...	91...	agagtcacattg	tccttaa
		*	*****	*****	* * *		**	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829-1 type=EN

D.Mel	tcacggtc	gtcgccgacgcc-...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG-tggcaaaagg-gcgggtgtgcc...	110...	tctcggcgg-aag	gaacggcg
D.Sim	tcccggtc	gtcgccgacgcc-...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG-tggcagaagg-gcgggtgtgcc...	110...	tctcggggg-aag	gaactgcg
D.Sec	tcccggtc	gtcgccgacgcc-...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG-tggcagaagg-gcgggtgtgcc...	110...	tctcggggg-aag	gaactgcg
D.Ere	tcccggtc	gtcgccgacgcc-...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG-tggcagaagg-gcgggtgtgcc...	110...	tctcggggg-aag	gaactgcg
D.Gri	-tgggggt	ggcagcagcacgg...	57...	caaatgggcagcccgttaaac	GCCAAga	CGATac	GGGTG-tggcaaaagg-ggggcgtgcc...	109...	ac-cagccacaaa	acacacac
D.Moj	gctaggtc	atcgcccacgcc-...	56...	caatgggcagcccgttaaac	GCCAAga	CGATac	GGGTG-tggcagaagg-ggggcgtgcc...	112...	ccacagtacaca	g-acacag
D.Per	gcgcgctc	ctccccacccc-...	32...	ccaacgggcagcccataat	GCCAAga	CGATac	GGGTG-tggcagaagg-gcggagtgtgcc...	109...	accagcggcccc	ccccctcg
D.Pse	gcgcgctc	ctccccacccc-...	32...	ccaacgggcagcccataat	GCCAAga	CGATac	GGGTG-tggcagaagg-gcggagtgtgcc...	106...	tcccagcgg-ccc	ccccctcg
D.Wil	tctcgatc	atcgccaacacc-...	26...	caatggccaaccatcaat	GCCAAga	CGATac	GGGTG-tggcagaagg-ggggcgtgcc...	99...	agcaacaaccaa	gaacaaca
D.Yak	tccaggtc	gtcgccaacgcc-...	83...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG-tggcagaagg-gcggagtgtgcc...	95...	gtgtaagcg-aag	gagcgggg
	*	* * * *		* * * * * *	* * *	*****	***	*****	* * * *	*

id=46315 gene=FBgn0015399 name=kek1 segment=chr2L.12818996-12819258-1 type=IN

Figure 102: CS=12



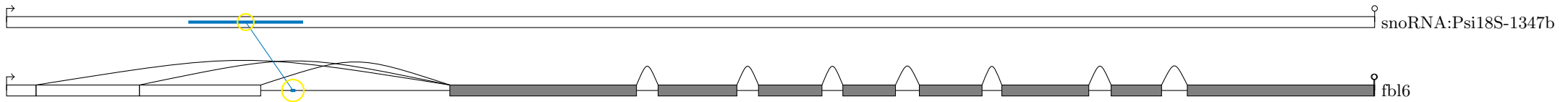
D.Mel	agacatct	agcAACTccTACCCATTG	ggttggtcagattcaaccctt...	96...	agagtcacattg--	ttatttaa
D.Sim	agacttct	agcAACTccTACCCATTG	ggttggtcagatttaaccctt...	96...	agagtcacattg--	ttatctaa
D.Sec	agacttct	agcAACTccTACCCATTG	ggttggtcacatttaaccctt...	96...	agagtcacattg--	ttatttaa
D.Ere	agatttct	agcAACTtcTACCCATTG	ggttggtcagatttaactctt...	96...	agagtcacaatg--	tccttaa
D.Ana	aaacttgc	agcAACTtcTACCCATTG	ggttggtcgaataaatctct...	249...	agagtcacaatg--	tcctt--
D.Gri	ttaaagt	ggcAACTtcTACCCATTG	ggttggtcaaaaaataatcca...	99...	agagatacaaat--	atcttgaa
D.Moj	ttaaata	ggcAACTtaTACCCATTG	ggttggtcaaattattatttt...	138...	--aattatatatt	ttttttt
D.Per	tcctctat	agcAACTtcTACCCATTG	ggttggtcaaactagcattca...	99...	agagtcacaaga--	gcattaaa
D.Pse	tcctctat	agcAACTtcTACCCATTG	ggttggtcaaactagcattcg...	99...	agagtcacaaga--	gcattaaa
	*	*****	*****	*	* * *	*

id=31163 gene=FBgn0086600 name=snoRNA:Psi18S-1347c segment=chr2R.14030684-14030829.1 type=EN

D.Mel	aTGATGcG	GTAAGTT	atgacaggctctctctccct---	1857...	ctcattccgcag	gtcctcgc
D.Sim	aTGATGcG	GTAAGTT	atgacaggctctctctctcc---	1693...	ctcattccgcag	gtcctcgc
D.Sec	aTGATGcG	GTAAGTT	atgacaggctctctctctgt---	1799...	ctcattccgcag	gtcctcgc
D.Ere	aTGATGcG	GTAAGTT	atgacagccacagagcatca---	1780...	ctcactccgcag	gtcctcgc
D.Ana	aTGATGcG	GTAAGTT	atgtcagccatccactgtcc---	1785...	ttcctcatatag	gtcttccc
D.Gri	aTGATGcG	GTAAGTT	ctttttagtcctgcctatcc---	1922...	tttttttatag	ctcttcgc
D.Moj	aTGATGcG	GTAAGTTGC	-actaatccattttacacat...	2052...	cccattgtacag	ctcctcgc
D.Per	aTGATGcG	GTAAGTT	atgacagagtccttgtttat---	1761...	cgattcctttag	gtcttccc
D.Pse	aTGATGcG	GTAAGTT	atgacagagtccttgtttat---	1749...	cgattcctttag	gtcttctc
	*****	*****			**	** * * *

id=44723 gene=FBgn0085447 name=sif segment=chr3L.5719695.5721590.1 type=IN

Figure 103: CS=10.8



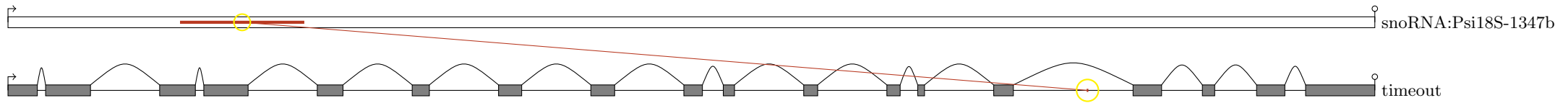
D.Mel	a-----agcttct	agc-----AACTTctACCCATTGGtTGGT	cagattta--accattttgac-...87...	--tgtatca--catga	ttagactg
D.Sim	a-----gacttct	agc-----AACTCctACCCATTGGtTGGT	cagattta--acccttttgac-...99...	--tgtatca--catga	ttagactg
D.Sec	a-----ggcttct	agc-----AACTTctACCCATTGGtTGGT	cagattta--accattttgac-...99...	--tgtatca--cataa	ttagactg
D.Ere	a-----ctttagt	agc-----AACTCctACCCATTGGtTGGT	cagattta--accctaagacac-...97...	--tgcatca--gacga	ttagactc
D.Ana	a-----aactt--	----GCAGcAACTTctACCCATTGGtTGGT	gaataaa--tctcttttcgaca...85...	--cacactg--cccga	atagactg
D.Gri	ataaatgtggcaacttct	a-----CCCATGGtTGGT	caaaaaagaatccattttg--...67...	--tcattca--caaaa	gtagaagc
D.Moj	t-----cacattt	----AGCAACTTAACCCATTGGtTGGT	cagattat--cccattttgac-...79...	gaagcgttacacttac	ctag---
D.Vir	-----tt	aaATGTGGCAACTTctACCCATTGGtTGGT	caaaagtc--ttatattttgac-...82...	---cgttacaatta	gtaaat
D.Yak	a-----gatttcc	agc-----AACTtCAACCCATTGGtTGGT	cagattta--acccttttgac-...100...	---ccatcatcgat-a	ttagactc
		***** *			**

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D.Mel	tgtagcag	gtgagatttacg...40...	-cgaatgggaaaccgtgaaaaACCGCCAAAaaTGGGTGAGTT	-ctttttgcatcgattttccc-----	...382...	-ttccaattgcag	aagagcga
D.Sim	tgtagcag	gtgagatttacg...51...	-cgaatgggaaaccgtgaaaaACCGCCAAAaaTGGGTGAGTT	-ctttttgcatcgattttccc-----	...395...	-ttccaattgcag	aagagcga
D.Sec	tgtagcag	gtgagatttacg...51...	-cgaatgggaaaccgtgaaaaACCGCCAAAaaTGGGTGAGTT	-ctttttgcatcgattttccc-----	...399...	-ttccaattacag	aagagcga
D.Ere	tgtagcag	gtgagatttacg...52...	-cgaatgggaaaccgtgaaaaACCGCCAAAaaTGGGTGAGTT	-ctttttgcatcgattttccc-----	...426...	-ttcaactgcag	aagagcga
D.Ana	ggtggcag	gtgagattggcg...83...	gcaatgggaaacacgaaaaGACCGCCAAAaaTGGGTGAGTT	TTGTttgcatcgattttcccggcc-----	...63...	-ttcgttttgcag	aaaagtga
D.Gri	cgtggctg	gtgagatttacg...57...	-cgatagagaactgggaagaACCGCCAAAaaTGGG	-----ctgagttgtttgtgttga-----	...70...	-tttcaattgcag	aaaagcag
D.Moj	tgttgaag	gtgagattcaac...39...	-cgtatagagaattaggaaaaACCGCCAAAaaTGGGTTGAGT	TGTT-ttgcacgattttccggcc-----	...105...	aatgatgcgca-	aagagcga
D.Vir	tgtagaag	gtgagatttacg...40...	-cgtatagagaactgggaaaaaACCGCCAAAaaTGGGTGAGT	TGTTttGCAT-cgattttccggccgtataa...	...27...	-tttccattgcag	aaaatccg
D.Yak	tgtagcag	gtgagatttacg...51...	-cgaatgggaaaccgtgaaaaACCGCCAAAaaTGGGTGAGTT	-ctttttgcatcgattttccc-----	...280...	-ttcaactgcag	aagagcga
	** * *	*****	** * * ** ** *****	****		*	** * *

id=82249 gene=FBgn0033609 name=fbl6 segment=chr2R.7176066_7176572_-1 type=I5 VIEW

Figure 104: CS=13.95



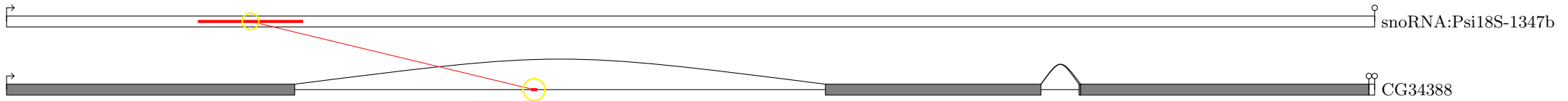
D. Mel	aagcttct	agcaacttct	ACCCATTGGT	TGGT	cagattt--aacccttttgac...87...-----tgtatca--catga--	ttagactg
D. Sim	agacttct	agcaactcct	ACCCATTGGT	TGGT	cagattt--aaccctttttgac...99...-----tgtatca--catga--	ttagactg
D. Sec	aggcttct	agcaacttct	ACCCATTGGT	TGGT	cagattt--aacccttttgac...99...-----tgtatca--cataa--	ttagactg
D. Ere	actttagt	agcaactcct	ACCCATTGGT	TGGT	cagattt--aaccctaagacac...97...-----tgcataca--gacga--	ttagactc
D. Ana	aaacttgc	agcaacttct	ACCCATTGGT	TGGT	cgaataa--atctcttttcgac...86...-----cacactg--cccga--	atagactg
D. Gri	ataaatgt	ggcaacttct	ACCCATTGGT	TGGT	caaaaaaagaatcattttg--...67...-----tca--ttcacaaaa	gtagaagc
D. Moj	tcacattt	agcaacttat	ACCCATTGGT	TGGT	cagatta--tccattttgagc...79...gaagcgttacact-tacctag--	-----
D. Per	tcctctat	agcaacttct	ACCCATTGGT	TGGT	caaactagcattcatcggtg--...118...-----cttataatcctttaat	tt-----
D. Pse	tcctctat	agcaacttct	ACCCATTGGT	TGGT	caaactagcattcctcggtg--...80...gaagcattaca--ttcagaata	-----
D. Vir	ttaaatgt	ggcaacttct	ACCCATTGGT	TGGT	caaaagt--cttatattttgag...82...---cgttacaat-ttagtaaat	tt-----
D. Yak	agatttcc	agcaacttca	ACCCATTGGT	TGGT	cagattt--aaccctttttgac...100...-----ccatcatcgat-a--	ttagactc
			*****	*****	*	*

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D. Mel	tttttcag	gtaagataatca...1679...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...298...tccacatccaag	gccaagct	
D. Sim	ttttccag	gtgagataatca...1667...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...295...ctctccacacag	gccaagct	
D. Sec	ttttccag	gtgagataatca...1562...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...294...gctctcccgcag	gccaagct	
D. Ere	tttttcag	gtgagataatca...1682...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...294...ctctccacgcag	gccaagct	
D. Ana	tgtttcag	gtgagtggaaatg...1373...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...338...cctattccccag	gccaagct	
D. Gri	tataccag	gtaagtgtggga...1436...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...320...tcctttccacag	gccaagct	
D. Moj	tctaccag	gtgagtgaacca...2110...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...380...tctgctacacag	gccaagct	
D. Per	tcttcag	gtgagccggagc...1660...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...322...ctctaccacag	gccaagct	
D. Pse	tcttcag	gtgagccggagc...1581...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...323...ctctaccacag	gccaagct	
D. Vir	tctaccag	gtgagtgttttg...2009...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...318...ttccttcacag	gccaagct	
D. Yak	tatttcag	gtgagataatct...1604...gcatcatatgcaaagtcaaa	ACCACTAATGGGT	ctgcgcaatcataggataaa...300...ctctccacacag	gccaagct	
	* * **	** **	*****	*****	* **	*****

id=10654 gene=FBgn0038118 name=timeout segment=chr3R.8984826_8986879_1 type=IN

Figure 105: CS=12.98



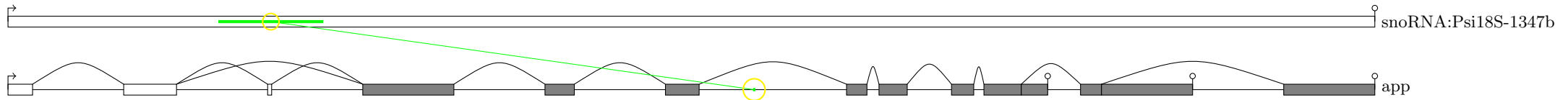
D. Mel	aagcttct	agcaacttcta	CCCATTGGTTGGT	cagattt--aacccattttgac...	.87...	--tgtatca--catg----	ttagactg
D. Sim	agacttct	agcaactccta	CCCATTGGTTGGT	cagattt--aacctttttgac...	.99...	--tgtatca--catg----	ttagactg
D. Sec	aggcttct	agcaacttcta	CCCATTGGTTGGT	cagattt--aacccattttgac...	.99...	--tgtatca--cata----	ttagactg
D. Ere	actttagt	agcaactccta	CCCATTGGTTGGT	cagattt--aacccaaagacac...	.97...	--tgcata--gacg----	ttagactc
D. Ana	aaacttgc	agcaacttcta	CCCATTGGTTGGT	cgaataa--atctcttttcgac...	.86...	--cacactg--cccg----	atagactg
D. Gri	ataaatgt	ggcaacttcta	CCCATTGGTTGGT	caaaaaagaatccattttg--...	.67...	-----tattcaca	gtagaagc
D. Moj	tcacattt	agcaac	TTATaCCCATTGGTTGGT	cagatta--tcccattttgagc...	.79...	gaagcgttacactta--c	ctag---
D. Pse	tcctctat	agcaacttcta	CCCATTGGTTGGT	caaactagcattcctcgttg--...	.80...	gaagcattacattcagaata	-----
D. Vir	ttaaatgt	ggcaacttcta	CCCATTGGTTGGT	caaaagt--cttatattttgag...	.82...	----cgttacaattt--	a gtaaattt
D. Yak	agatttcc	agcaac	TTCAaCCCATTGGTTGGT	cagattt--aacctttttgac...	.100...	----ccatcatcgat----	ttagactc
			*****	*****		*	

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D. Mel	gcgccag	gtaaggagtcca...	.370...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtaccga-----	...761...	cctcaccatcag	gaacaaag
D. Sim	gcgccag	gtaaggatcca...	.401...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtaccga-----	...755...	cctcttcgtcag	gaacaaag
D. Sec	gcgccag	gtaaggatcca...	.391...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtaccga-----	...760...	tctctcatcag	gaacaaag
D. Ere	gcgccag	gtaa-gagtccag...	.372...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtaccgc-----	...749...	ccgcctcatcag	gaacaaag
D. Ana	gcagctag	gtaaggatgct...	.261...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtaccgag-----	...709...	taacctttcag	gaacaaag
D. Gri	gcggtcag	gtgagctaagct...	.292...	gtcgaccacacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagttcgac-----	...1169...	attttacgacag	aatagag
D. Moj	gcagccag	gtgagtcagga...	.276...	gtcgccgacacacgcaaa	ACCAATTAATGGG	GTGAaaaaaatcagtcgac-gacga...	.1382...	caccttaacag	aaccagag
D. Pse	gccgccag	gtaagcggcagc...	.301...	gtcgccagacacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtagagt-----	...1344...	ttcatttaaag	aaacaaag
D. Vir	acggtcag	gtgagtcagga...	.273...	gtcagccacacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagttcgtc-----	...1206...	tcatccaacag	aatagag
D. Yak	gcgccag	gtaagatgtggg...	.397...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaatcagtcgacgattg...	.776...	cctcctcatcag	gaacaaag
		** **		***	*****	*****		**	* * *

id=10415 gene=FBgn0085417 name=CG34388 segment=chr3R.10245044_10246251_1 type=IN

Figure 106: CS=11.8



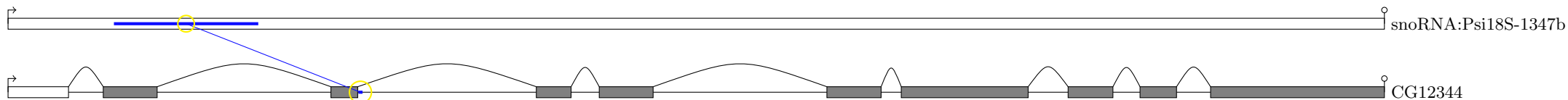
D.Mel	aagcttct	agcaacttctaccc	ATTGGTTGGTCAGA	--ttaaacccttttgacacga--...83...-----tgta--tca--catga	ttagactg
D.Sim	agacttct	agcaactcctaccc	ATTGGTTGGTCAGA	--ttaaacccttttgacacga--...95...-----tgta--tca--catga	ttagactg
D.Sec	aggcttct	agcaacttctaccc	ATTGGTTGGTCAGA	--ttaaacccttttgacacga--...95...-----tgta--tca--cataa	ttagactg
D.Ere	actttagt	agcaactcctaccc	ATTGGTTGGTCAGA	--ttaaacc--taagacacgact...93...-----tgca--tca--gacga	ttagactc
D.Gri	ataaatgt	ggcaacttctaccc	ATTGGTTGGTCAG	aaaaaagaatccattttgag-----...65...-----tattca--caaaa	gtagaagc
D.Moj	tcacattt	agcaacttataccc	ATTGGTTGGTCAG	--attatcccattttgagccag--...76...gaagcgtta--cac--t-tac	ctag---
D.Per	tcctctat	agcaacttctaccc	ATTGGTTGGTCAG	aactagcattcatcggtgat-----...116...-----ctta--taa--tatcc	tttaattt
D.Pse	tcctctat	agcaacttctaccc	ATTGGTTGGTCAG	aactagcattctcctggtgat-----...78...gaagcattacattca--gaata	-----
D.Vir	ttaaatgt	ggcaacttctaccc	ATTGGTTGGTCAG	aaagtcttat--attttgagct-----...80...----cgta--caa--t-tta	gtaaattt
D.Yak	agatttcc	agcaacttcaaccc	ATTGGTTGGTCAG	--attaaacccttttgacacg--...97...-----cca--tcatcgat-a	ttagactc
		*****	*****	**	

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D.Mel	gtccctgg	gtgagtagtgat...253...-c-----aa-cagcctctcgtcgtc	TCTGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...1232...ctctctttgcag	gtgggaaa
D.Sim	gtccctgg	gtgagtagtgat...253...acc-----aa-cagcctctcgtcgtc	TCTGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...1247...ctctctttgcag	gtgggaaa
D.Sec	gtccctgg	gtgagtagtgat...251...acc-----aa-cagcctctcgtcgtc	TCTGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...1227...ctctctttgcag	gtgggaaa
D.Ere	gtccctgg	gtgagtagtgat...267...acc-----aa-cagcctctcgtcgtc	TCTGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...1215...ctctctttgcag	gtgggaaa
D.Gri	gtccctgg	gtaagtacatag...91...ttgcccagcag-cggcagcgc-----	TGAC	ttTAACcCAAT	tt--cggc-gccaactgctgtgc...1292...gtctctttgcag	gtgggcaa
D.Moj	gtccctgg	gtaagtcaagga...192...gcactgtgccca-ctgcgggtc-----	TGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...925...ccctcgttgag	gtgggaaa
D.Per	gtccctgg	gtaagtcaagga...192...gcactgtgccca-ctgcgggtc-----	TGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...925...ccctcgttgag	gtgggaaa
D.Pse	gtccctgg	gtaagtcaagga...213...gcactgtgccca-ctgcgggtc-----	TGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...934...ccctcgttgag	gtgggaaa
D.Vir	gtccctgg	gtaagtacaaat...93...-tgcccacccgcccgtcgc-----	TGAC	ttTAACcCAAT	tt--ctgc-cccaactgctgagg...1537...gtctctttgcag	gtgggaaa
D.Yak	gtccctgg	gtgagtagtgat...264...-a-cagcctctcgtcgtcgtc	TCTGAC	ttTAACcCAAT	tc--caac-ggcaaccgctgagg...1253...ctctctttgcag	gtgggaaa
	*****	** ***	*	*	*****	** * * * *

id=69130 gene=FBgn0260941 name=app segment=chr3L.12207152_12208717_-1 type=IN

Figure 107: CS=14.8



```

D.Mel aagcttct ag-----CAACTtcTACCCaTTGGTtggtcagatttaaccattt...91...----tgtatcacatg---a ttagactg
D.Sim agacttct ag-----CAACTccTACCCaTTGGTtggtcagatttaacccttt...103...----tgtatcacatg---a ttagactg
D.Sec aggcttct ag-----CAACTtcTACCCaTTGGTtggtcagatttaaccattt...103...----tgtatcacata---a ttagactg
D.Ere actttagt ag-----CAACTccTACCCaTTGGTtggtcagatttaaccctaag...101...----tgcactcagacg---a ttagactc
D.Ana aaacttgc agc-----AACTtcTACCCaTTGGTtggtcgaataaatctcttt...90...----cacactgcccg---a atagactg
D.Gri -----at aaatGTGGcAACTtcTACCCaTTGGTtggtcaaaaaagaatccat...71...-----tcattcacaaaa gtagaagc
D.Moj tcacattt ag-----CAACTtaTACCCaTTGGTtggtcagattatcccattt...83...gaagcgttacactta---c ctag---
D.Per tcctctat agc-----AACTtcTACCCaTTGGTtggtcaaactagcattcatc...122...----cttataaatc---c ttttaatt
D.Pse tcctctat agc-----AACTtcTACCCaTTGGTtggtcaaactagcattcctc...84...gaagcattacattcagaata -----
D.Vir -----tt aaaTGTGgcAACTtcTACCCaTTGGTtggtcaaaagtcttatatt...86...----cgttacaattt---a gtaaattt
*          **** ***** *

```

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

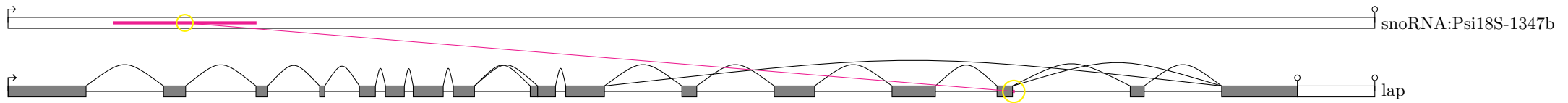
```

D.Mel tGTCAAGG GTAAGTTG-----aactcca--accaatagcaatg...1371...gatttattgcag aaatacga
D.Sim tGTCAAGG GTAAGTTG-----aactcca--ccaatagcaatg...1977...gatttattgcag aaatacga
D.Sec tGTCAAGG GTAAGTTG-----aactcca--ccaatagcaatg...1327...gatttattgcag aaatacga
D.Ere tGTCAAGG GTAAGTTG-----aactcca--ccc-atagcccac...1318...gatttattgcag aaatacga
D.Ana tGTCAAGG GTAAGTT-aaacaggccccgcccacaga-----...1323...gattcgttcag agatacga
D.Gri tGTCAAGG GTAAGTTTAT-----ttctcttctcttcttctc...1634...ttgtttttcag aaatgcga
D.Moj tGTCAAGG GTAAGTTGgcaatatat---tttttatacc-----...1845...ttttaattgcag aaatgcgt
D.Per tGTCAAGG GTAAGTT-----aaaccagccccagaggcca---...1054...gatttattgcag aaatacga
D.Pse tGTCAAGG GTAAGTT-----aaaccagccccagaggccg---...1033...gatttattgcag aaatacga
D.Vir tGTCAAGG GTAAGTTGCAatatatgcatctgcatggg-----...1970...gcttatttcag aaatgcga
***** ***** * ** ** * ** **

```

id=56400 gene=FBgn0033558 name=CG12344 segment=chr2R.6719219_6720629_-1 type=IN VIEW

Figure 108: CS=14.8



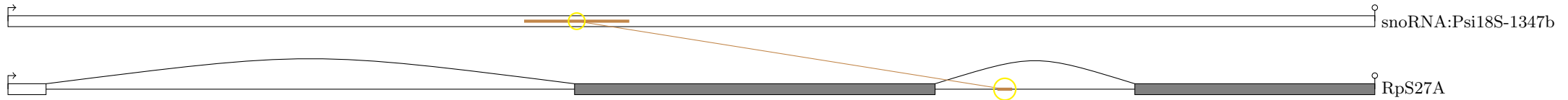
D.Mel	aagcttct	agc---AACTtcTACCcATTGGttggtcagatttaaccatt...92...----tgtatcacatg----a	ttagactg
D.Sim	agacttct	agc---AACTccTACCcATTGGttggtcagatttaacccttt...104...----tgtatcacatg----a	ttagactg
D.Sec	aggcttct	agc---AACTtcTACCcATTGGttggtcagatttaaccatt...104...----tgtatcacata----a	ttagactg
D.Ere	---acttt	aGTAGcAACTccTACCcATTGGttggtcagatttaaccctaa...102...----tgcacagacg----a	ttagactc
D.Ana	aaactt--	-GCAGcAACTtcTACCcATTGGttggtcgaataaatctcttt...91...----cacactgccg----a	atagactg
D.Gri	ataaatgt	ggc---AACTtcTACCcATTGGttggtcaaaaaagaatcca...72...-----tcattcacaaaa	gtagaagc
D.Moj	tcacattt	agc---AACTtaTACCcATTGGttggtcagattatcccatt...84...gaagcgttacactta----c	ctag----
D.Per	tcctctat	agc---AACTtcTACCcATTGGttggtcaaaactagcattcat...123...----cttataatc----c	tttaattt
D.Pse	tcctctat	agc---AACTtcTACCcATTGGttggtcaaaactagcattcct...85...gaagcattacattcagaata	-----
D.Vir	ttaaatgt	ggc---AACTtcTACCcATTGGttggtcaaaagtcttatatt...87...----cgttacaattt----a	gtaaattt
	*	* **** ***** *	

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647.1 type=EN

D.Mel	gtCCAATG	GTGAGTT	ttgcctac-tctaactcttct----...1137...tgcaatacgtag	gcacatgg
D.Sim	gtCCAATG	GTGAGTT	ttgcctac-tctaactcttct----...1126...tgcaatacgtag	gcacatgg
D.Sec	gtCCAATG	GTGAGTT	ttgcctac-tctaactcttct----...1116...tgcaatacgtag	gcacatgg
D.Ere	gtCCAATG	GTGAGTTTGC	ctac-tctaactcttctgtct...1099...tgcaatacgtag	gcacatgg
D.Ana	gtCCAATG	GTGAGTTTTC	ctac-tctaactcttctct...1144...aaaaaacgtag	gcacatgg
D.Gri	gtCCAATG	GTGAGTT	---atgacaactaactctctctc...1281...atgtatacctag	gcacatgg
D.Moj	gtCCAATG	GTGAGTT	atgaccacagctaactctct----...1265...atgcatacatag	gcacatgg
D.Per	gtCCAATG	GTGAGTT	atg-ccac-tctaact---ctctaa...1143...atattaatatag	gcacatgg
D.Pse	gtCCAATG	GTGAGTT	atg-ccac-tctaact---ctctaa...1152...atattaatatag	gcacatgg
D.Vir	gtCCAATG	GTGAGTT	ttgaccacaactaactctct----...1273...atgtatataaag	gcacatgg
	*****	*****	** **** *	* ** *****

id=112207 gene=FBgn0086372 name=lap segment=chr3R.3022116_3023291.1 type=IN

Figure 109: CS=13



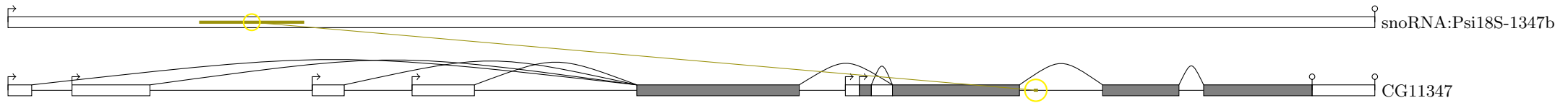
D. Mel	aagcttct	agcaacttctaccattggttggtcagatt--taaccattttgacac	GACTAAGATTCA	tag-ttgccagagaaagcaat-...53...-----	tgatca-catga	ttagactg
D. Sim	agacttct	agcaactcctaccattggttggtcagatt--taacccttttgacac	GACTAAGATTCA	ctg-ttgccagagaaagcaat-...65...-----	tgatca-catga	ttagactg
D. Sec	aggcttct	agcaacttctaccattggttggtcagatt--taaccattttgacac	GACTAAGATTCA	ctg-ttgccagagaaagcaat-...65...-----	tgatca-cataa	ttagactg
D. Ana	aaacttgc	agcaacttctaccattggttggtcgaata--aatctcttttcgacac	GACTAAGATTCAA	ag-ttgctagaacaactgaag...51...-----	cacactg-cccga	atagactg
D. Gri	ataaatgt	ggcaacttctaccattggttggtcaaaaaaagaatccattttgagcc	GACTAAGATTCAA	agtttgctagaataatt-acg...30...-----	tcattcaca-aa--	gtagaagc
D. Per	tcctctat	agcaacttctaccattggttggtcaactagcattcatcgtt	GATCC GACTAAGATTCAA	ag-ttgccagatcaaaagtcca...81...-----	cttataa-tatcc	tttaattt
D. Pse	tcctctat	agcaacttctaccattggttggtcaactagcattcctcgtt	GATCC GACTAAGATTCAA	ag-ttgccagagaaaggaatg...43...gaagcattacattcagaa-ta--	-----	-----
D. Vir	ttaaatgt	ggcaacttctaccattggttggtcaaaagtcttat--attttgagct	GACTAAGATTCAA	ag-ttgcaagaataatacgtg...47...-----	cgttaca-tt-ta	gtaaattt
D. Yak	agatttcc	agcaacttcaaccattggttggtcagatt--taacccttttgacac	GACTAAGATTCA	tag-ttgccagagaaagtcac-...66...-----	ccatcatcgata	ttagactg
	*	***** * ***** * *	** ***** * **** ** *		*	

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647.1 type=EN

D. Mel	actacaag	gtacac-----acaacaatctaccgacaccataccgaaaacat-----	tctgatctgttct	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...91...--tcctttccatag	gttgacga
D. Sim	actacaag	gtacac-----acaacaatctaccgcat-----ccgaaaacat-----	tctgatctgttct	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...89...--atctttccatag	gttgacga
D. Sec	actacaag	gtacac-----acaacaatctaccgacat-----ccgaaaacat-----	tctgatctgttct	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...88...--atctttccatag	gttgacga
D. Ana	actacaag	gtacaa-----tcaatact--ccgacac-----ccaatacat-----	tctgatctgttct	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...79...--atctttccatag	gttgacga
D. Gri	actacaag	gtactacctccacatccttcaataaac-----tagagaacagaacaattaattcgatctgttc	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...89...aattcatt--cag	gttgacga	
D. Per	actacaag	gtatat-----agttctgctgact-----tggaatatataaaag-----	agatctgttc	TGGAAtTCTTgAGTC	ttGGTC --ttgctcgttgactcaaca...40...--aatattcaacag	gtggatga
D. Pse	actacaag	gtatat-----agttctgctgacc-----tggaatatataaaag-----	agatctgttc	TGGAAtTCTTgAGTC	ttGGTC --ttgctcgttgactcaaca...40...--aatattcaacag	gtggatga
D. Vir	actacaag	gtataa-----cttcaataa-----cgaacacagattta-cgattcgatctgttc	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...334...--tttatattgcag	gttgacga	
D. Yak	actacaag	gtacac-----acaacaatctaccgacac-----ccgaaaacat-----	tctgatctgttct	TGGAAtTCTTgAGTC	ttg--gtccttgctcattggc-----...90...--tttatccacag	gttgacga
	*****	***	* * *	*****	** ** *	** ** **

id=90595 gene=FBgn0003942 name=Rps27A segment=chr2L.10410052_10410240.1 type=IN

Figure 110: CS=11.7



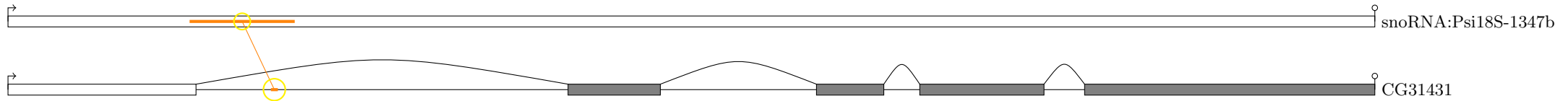
D. Mel	aagcttct	agcaacttctac	CCATTGGTTGGTCaGATT	--taaccattttgacacgact--	... 81...	-----tgtatca--catga--	ttagactg
D. Sim	agacttct	agcaactcctac	CCATTGGTTGGTCaGATT	--taaccctttttgacacgact--	... 93...	-----tgtatca--catga--	ttagactg
D. Sec	aggcttct	agcaacttctac	CCATTGGTTGGTCaGATT	--taaccattttgacacgact--	... 93...	-----tgtatca--cataa--	ttagactg
D. Ere	actttagt	agcaactcctac	CCATTGGTTGGTCaGATT	--taacc--taagacacgactaa...	... 91...	-----tgcata--gacga--	ttagactc
D. Ana	aaacttgc	agcaacttctac	CCATTGGTTGGTCGA	--ataaatctcttttcgacacg--	... 83...	-----cacactg--cccga--	atagactg
D. Gri	ataaatgt	ggcaacttctac	CCATTGGTTGGTCAA	aaaaagaatccattttgagc--	... 64...	-----tca--ttcacaaaa	gtagaagc
D. Moj	tcacattt	agcaacttatac	CCATTGGTTGGTCaGATT	--atcccattttgagccagcta...	... 73..	gaagcgttacact-tacctag--	-----
D. Per	tcctctat	agcaacttctac	CCATTGGTTGGTCAA	actagcattcatcgttgatc--	... 115...	-----cttataatcctttaat	tt-----
D. Pse	tcctctat	agcaacttctac	CCATTGGTTGGTCAA	actagcattcctcgttgatc--	... 77..	gaagcattaca--ttcagaata	-----
D. Vir	ttaaatgt	ggcaacttctac	CCATTGGTTGGTCAA	--aagcttatattttgagctg--	... 79...	----cgttacaat-ttagtaaat	tt-----
D. Yak	agatttcc	agcaacttcaac	CCATTGGTTGGTCaGATT	--taaccctttttgacacgact--	... 94...	-----ccatcatcgat-a--	ttagactc
		*****	*****	**		*	

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D. Mel	gagtcctg	gtacgtaacaccgccaccatgcttcacctc	GATTgGGCCAATCAatATGG	aaacatcaccatttgagaat...	174...	tctattttgcag	catgtccg
D. Sim	gagtcctg	gtacgtaacaccgccaccatgcttcacctc	GATTgGGCCAATCAatATGG	aaacatcaccatttgagaat...	173...	ttcgttttgcag	catgtccg
D. Sec	gagtcctg	gtacgtaacaccgccaccatgcttcacctc	GATTgGGCCAATCAatATGG	aaacatcaccatttgagaat...	173...	ttcgttttgcag	catgtccg
D. Ere	gagtcctg	gtacgtaacaccgccaccatgcttcacctc	GATTgGGCCAATCAatATGG	aaacatcaccatttgagaat...	192...	atcgctttgcag	catgtccg
D. Ana	gagtcctg	gtacgtaacaccgccaccatgcttcacctcga	TTGGGCCAATCAatATGG	aaacatcaccatttgagaat...	182...	ttttatttcag	catgtccg
D. Gri	gagtcctg	gtacgtaacaccgccaccatgcttcacctcga	TTGGGCCAATCAatATGG	aaacatcaccctttgagaat...	163...	ttgtttttgcag	catgtccg
D. Moj	gagtcctg	gtacgtaacaccgccaccatgcttcacctc	GATTgGGCCAATCAatATGG	aagcatcaccctttgagaat...	133...	ctacttttgcag	catgtccg
D. Per	gagtcctg	gtacgtaacaccgccaccatgcttcacctcga	TTGGGCCAATCAatATGG	aaacttcaccatttgagaat...	148...	ttgcctttgcag	catgtctg
D. Pse	gagtcctg	gtacgtaacaccgccaccatgcttcacctcga	TTGGGCCAATCAatATGG	aaacttcaccatttgagaat...	148...	ttgcctttgcag	catgtctg
D. Vir	gagtcctg	gtacgtaacaccgccaccatgcttcacctcga	TTGGGCCAATCAatATGG	aagcatcaccctttgagaat...	110...	attctgctacag	catgtccg
D. Yak	gagtcctg	gtacgtaacaccgccaccatgcttcacctc	GATTgGGCCAATCAatATGG	aaacatcaccatttgagaat...	184...	gcgtttttgcag	catgtccg
	*****	*****	*****	* *****		* ***	***** *

id=1929 gene=FBgn0035542 name=CG11347 segment=chr3L.4419173_4419428_1 type=IN

Figure 111: CS=11



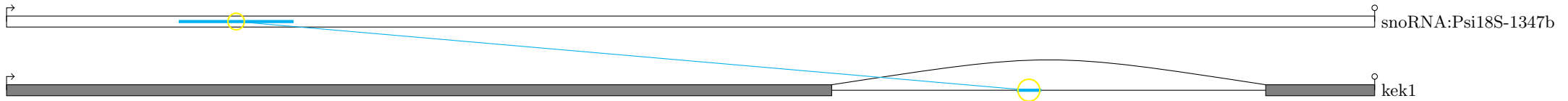
D.Mel	aagcttct	agcaacttcta	CCCATTGGTTGGT	cagatt--taaccattttgac--...87...--tgtatca--ca-tga	ttagactg
D.Sim	agacttct	agcaactccta	CCCATTGGTTGGT	cagatt--taaccctttttgac--...99...--tgtatca--ca-tga	ttagactg
D.Sec	aggcttct	agcaacttcta	CCCATTGGTTGGT	cagatt--taaccattttgac--...99...--tgtatca--ca-taa	ttagactg
D.Ere	actttagt	agcaactccta	CCCATTGGTTGGT	cagatt--taaccctaagacac--...97...--tgcataca--ga-cga	ttagactc
D.Ana	aaacttgc	agcaacttcta	CCCATTGGTTGGT	CGAata--aatctcttttcgacac...84...--cacactg--cc-cga	atagactg
D.Moj	tcacattt	agcaacttata	CCCATTGGTTGGT	cagatt--atcccattttgagc--...79...gaagcgttacact-tac	ctag---
D.Per	tcctctat	agcaacttcta	CCCATTGGTTGGT	caaactagcattcatcgctg---...118...-----cttataatatcc	tttaattt
D.Pse	tcctctat	agcaacttcta	CCCATTGGTTGGT	caaactagcattcctcgctg---...80...gaagcattacatt---	-cagaata
D.Vir	ttaaagt	ggcaacttcta	CCCATTGGTTGGT	caaaag--tcttatattttgag--...82...----cgttacaat-tta	gtaaattt
D.Yak	agatttcc	agcaacttcaa	CCCATTGGTTGGT	cagatt--taaccctttttgac--...100...--ccatcatcga-t-a	ttagactc
		*****	*****	*	

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D.Mel	tagccaca	gtgagtgtgttt...88...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...808...agtgtt-cgacag	gttccttc
D.Sim	tagccaca	gtgagtgtgttt...88...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...794...agtgtt-cgacag	gttccttc
D.Sec	tagccaca	gtgagtgtgttt...88...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...795...agtgtt-cgacag	gttccttc
D.Ere	taggcaaa	gtgagtgtgttt...89...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...818...agtgtt-cgacag	gttccttc
D.Ana	ttagccca	gtgtgagtgtctc...92...tcgtataaatcaattgagtcCGATgCCAATCAA	g-TGGG	-ccagccagataaatctcca...960...tgtgtc-caacag	gttcctac
D.Moj	ggg'gcct	gtaaccgcgct...116...---tataaatcaattgagtgat-GCCAATCAA	at-TGGG	ggcaactgtgataaatctaa...1045...aatata-atttta	gttgctta
D.Per	tgtccaca	gtgagtgtctaaa...84...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...949...tgtatc-tgatag	gtcgacgc
D.Pse	tgtccaca	gtgagtgtctaaa...84...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...931...tgtatc-tgatag	gtcgacgc
D.Vir	ggg'gcct	gtaactgcgct...103...---tataaatcaattgagtgaaac-GCCAATCAA	aa-TGGG	ggcaactgtgataaatctac...1050...-atatagataaaa	gtatatta
D.Yak	cactgtga	gtgagtgtgagt...81...---tataaatcaattgagtcgat-GCCAATCAA	g-TGGG	-gcaacacagataaatctcca...863...agtgtt-cgacag	gttccttc
	**	*	*****	*****	**

id=91731 gene=FBgn0051431 name=CG31431 segment=chr3R.17696730_17697703_1 type=I5

Figure 112: CS=11.8



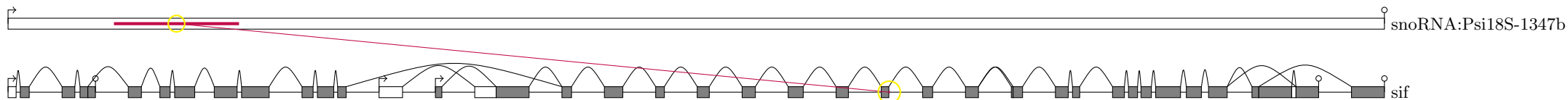
D. Mel	aagcttct	agcaacttc	TACCCATTGg	TTGGT	cagattt--aacccattttgac...	87...	-----tgta---tca--catga	ttagactg
D. Sim	agacttct	agcaactcc	TACCCATTGg	TTGGT	cagattt--aacctttttgac...	99...	-----tgta---tca--catga	ttagactg
D. Sec	aggcttct	agcaacttc	TACCCATTGg	TTGGT	cagattt--aacccattttgac...	99...	-----tgta---tca--cataa	ttagactg
D. Ere	actttagt	agcaactcc	TACCCATTGg	TTGGT	cagattt--aacctaagacac...	97...	-----tgca---tca--gacga	ttagactc
D. Gri	ataaatgt	ggcaacttc	TACCCATTGg	TTGGT	caaaaaagaatccattttg--...	67...	-----tattca--caaaa	gtagaagc
D. Moj	tcacattt	agcaacttat	ACCCATTGg	TTGGT	cagatta--tccattttgagc...	79...	gaagcgtta---cac--t-tac	ctag---
D. Per	tcctctat	agcaacttc	TACCCATTGg	TTGGT	caaactagcattcatcgttg--...	118...	-----ctta---taa--tatcc	tttaattt
D. Pse	tcctctat	agcaacttc	TACCCATTGg	TTGGT	caaactagcattcctcgttg--...	80...	gaagcattacattca--gaata	-----
D. Vir	ttaaatgt	ggcaacttct	ACCCATTGg	TTGGT	caaaagt--cttatattttgag...	82...	----cgta---caa--t-tta	gtaaattt
D. Yak	agatttcc	agcaacttca	ACCCATTGg	TTGGT	cagattt--aacctttttgac...	100...	-----cca---tcatcga-t-a	ttagactc
		*****		*****		*****		*

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D. Mel	-----tcacggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG	-tggcaaaagg-gcgggtgtgcc...	110...	tctcggcgg-aag	gaacggcg
D. Sim	-----tcccggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG	-tggcagaagg-gcgggtgtgcc...	110...	tctcggggg-aag	gaactgcg
D. Sec	-----tcccggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG	-tggcagaagg-gcgggtgtgcc...	110...	tctcggggg-aag	gaactgcg
D. Ere	-----tcccggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG	-tggcagaagg-gcgggtgtgcc...	110...	tctcggggg-agg	gaacggcg
D. Gri	tgggggtggcagcagcagcgg--	-----	57...	caaatgggcagcccgtaaac	GCCAAga	CGATac	GGGTG	-tggcaaaagg-ggggcgtgcc...	109...	ac-cagccacaaa	acacacac
D. Moj	-----gctaggtc	atcgccccagcc...	56...	caaatgggcagcccgtaaac	GCCAAga	CGATac	GGGTG	-ctggcagaagg-ggggcgtgc-	112...	ccacagtacaca	g-acacag
D. Per	-----gcgcgctc	ctccccacccc...	32...	ccaacgggcagcccataat	GCCAAga	CGATac	GGGTG	-tggcagaagg-gcgggtgtgcc...	109...	-accagcggcccc	ccccctcg
D. Pse	-----gcgcgctc	ctccccacccc...	32...	ccaacgggcagcccataat	GCCAAga	CGATac	GGGTG	-tggcagaagg-gcgggtgtgcc...	106...	tcccagcgg-ccc	ccccctcg
D. Vir	-----agcagcggct	tcggccagctc...	53...	ccaacgggcagcccgtaaac	GCCAAga	CGATac	GGGTG	-ctggcagaagg-gaggcgtgc-	111...	accatac-agc	accacac
D. Yak	-----tccaggtc	gtcgccaacgcc...	83...	ccaacgggcagccaatcaac	GCCAAga	CGATac	GGGTG	-tggcagaagg-gcgggtgtgc-	95...	gtgtaagc-g-aag	gagcgggg
		* *		* * * * *		* * * * *		* * * * *		*	

id=46315 gene=FBgn0015399 name=kek1 segment=chr2L.12818996_12819258_-1 type=IN

Figure 113: CS=13



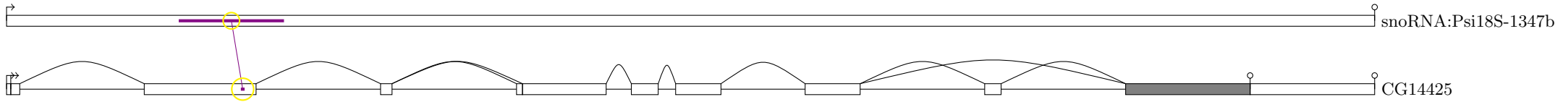
D.Mel	aagcttct	agcAACTtcTACCCATTG	gttggtcagatttaacccat...	93...	----tgatcacatg----	a	ttagactg
D.Sim	agacttct	agcAACTccTACCCATTG	gttggtcagatttaaccct...	105...	----tgatcacatg----	a	ttagactg
D.Sec	aggcttct	agcAACTtcTACCCATTG	gttggtcagatttaacccat...	105...	----tgatcacata----	a	ttagactg
D.Ere	actttagt	agcAACTccTACCCATTG	gttggtcagatttaacccta...	103...	----tgcacagacg----	a	ttagactc
D.Ana	aaacttgc	agcAACTtcTACCCATTG	gttggtcgaataaatctctt...	92...	----cacactgccg----	a	atagactg
D.Gri	ataaatgt	ggcAACTtcTACCCATTG	gttggtcaaaaaagaatcc...	73...	-----cattcacaaaa		gtagaagc
D.Moj	tcacatTT	AGCAACTtaTACCCATTG	gttggtcagattatcccatt...	85...	gaagcgttacactta----	c	ctag----
D.Per	tcctctat	agcAACTtcTACCCATTG	gttggtcaaaactagcattca...	124...	----cttataatc----	c	ttaattt
D.Pse	tcctctat	agcAACTtcTACCCATTG	gttggtcaaaactagcattcc...	86...	gaagcattacattcagaata		-----
D.Vir	ttaaatgt	gGCAACTtcTACCCATTG	gttggtcaaaagtcttatat...	88...	----cgttacaattt----	a	gtaaattt
		*****	*****	*			

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647.1 type=EN

D.Mel	aTGATGcG	GTAAGTT	-----atgacaggtctctctcct	-----	...1857...	ctcattccgcag	gtcctcgc
D.Sim	aTGATGcG	GTAAGTT	-----atgacaggctctctctcc	-----	...1693...	ctcattccgcag	gtcctcgc
D.Sec	aTGATGcG	GTAAGTT	-----atgacaggtctctctctgt	-----	...1799...	ctcattccgcag	gtcctcgc
D.Ere	aTGATGcG	GTAAGTT	-----atgacagccacagacatca	-----	...1780...	ctcactccgcag	gtcctcgc
D.Ana	aTGATGcG	GTAAGTT	-----atgtcagccatccactgtcc	-----	...1785...	ttcctcatatag	gtcctccc
D.Gri	aTGATGcG	GTAAGTT	-----cttttagtctctctatcc	-----	...1922...	tttttttatag	ctcttcgc
D.Moj	aTGATGcG	GTAAGTTGcaCTAA	tccattttacaccatcactg	-----	...2047...	ccattgtacag	ctcctcgc
D.Per	aTGATGcG	GTAAGTT	-----atgacagagtctctgtttat	-----	...1761...	cgattcctttag	gtcctccc
D.Pse	aTGATGcG	GTAAGTT	-----atgacagagtctctgtttat	-----	...1749...	cgattcctttag	gtcctctc
D.Vir	aTGATGcG	GTAAGTTGC	-----gtagtctct--ttgtcctcctg	...	1782...	ttgttttacag	ctcctcac
	*****	*****				**	** * * *

id=44723 gene=FBgn0085447 name=sif segment=chr3L.5719695_5721590.1 type=IN

Figure 114: CS=13



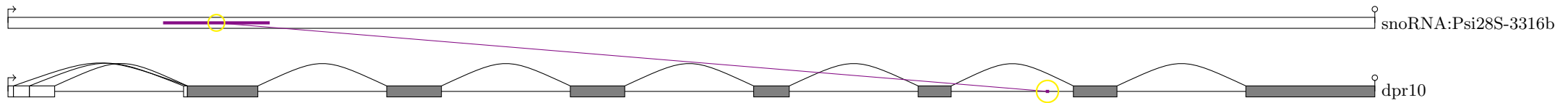
D. Mel	aagcttct	agcaactt	CTACCCATTGGTTG	gtcaga--ttaaaccattttg-...89...--tgtatca--ca-tga	ttagactg
D. Sim	agacttct	agcaactc	CTACCCATTGGTTG	gtcaga--ttaaaccattttg-...101...--tgtatca--ca-tga	ttagactg
D. Sec	aggcttct	agcaactt	CTACCCATTGGTTG	gtcaga--ttaaaccattttg-...101...--tgtatca--ca-taa	ttagactg
D. Ere	actttagt	agcaactc	CTACCCATTGGTTG	gtcaga--ttaaaccctaagac-...99...--tgcataca--ga-cga	ttagactc
D. Ana	aaacttgc	agcaactt	CTACCCATTGGTTG	gtcgaa---taaactctcttttcg...88...--cacactg--cc-cga	atagactg
D. Moj	tcacattt	agcaac	TTATACCCATTGGTTG	gtcaga---ttatcccattttga...81...gaagcgttacact-tac	ctag---
D. Per	tcctctat	agcaactt	CTACCCATTGGTTG	gtcaaa---ctagcattcatcgt...120...-----cttataatatcc	tttaattt
D. Pse	tcctctat	agcaactt	CTACCCATTGGTTG	gtcaaa---ctagcattcctcgt...82...gaagcattacatt----	-cagaata
D. Vir	ttaaatgt	ggcaactt	CTACCCATTGGTTG	gtcaaaagtcttatattttg---...84...----cgttacaat-tta	gtaaattt
D. Yak	agatttcc	agcaactt	caACCCATTGGTTG	gtcaga--ttaaaccattttg-...102...----ccatcatcga-t-a	ttagactc
			*****	*****	*

id=19251 gene=FBgn0083053 name=snoRNA:Psi18S-1347b segment=chr2R.14030505_14030647_1 type=EN

D. Mel	tacaacag	cgcgctacaag...348...aactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Sim	tacaacag	cgcgctacaag...358...aactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Sec	tacaacag	cgcgctacaag...358...aactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Ere	tacaacag	cgcgctacaag...364...aactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Ana	gctgagag	cgcgccaagaaa...400...aactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Moj	taaaacag	tctacaagaag...471...cactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Per	caagacag	tgcgctcccaca...593...cacactcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Pse	tcagacag	tgcgctcccaca...609...cacactcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Vir	tacaaata	cgcgcacacaca...852...cactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
D. Yak	tacaacag	cgcgctacaag...369...aactctcaggat	gttacggCAACAA	TAATccGGGTAG	taacaataataatggtggttatcccccatatggctacaacaacaagtcgag	gtaaattt
	*	*	*	** *****	*****	*****

id=105463 gene=FBgn0029933 name=CG14425 segment=chrX.6985707_6986155_-1 type=E5

Figure 115: CS=10



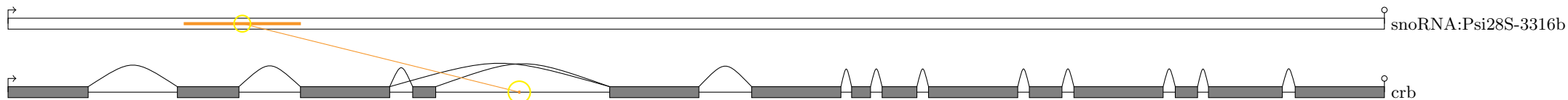
D.Mel	ctcggcgg	ac-----gcacc	TAAAAGCGTTTCTTG	ccagcccgttaagtgctctc	....86..	tcatttatatat	tagtatct-----
D.Sim	ctcggcgg	ac-----gcacc	TAAAAGCGTTTCTTG	ccagcccgttaagtgctctt	....86..	tcatttatatat	taatatct-----
D.Sec	ctcagcgg	ac-----gcacc	TAAAAGCGTTTCTTG	ccagcccgttaagtgctctt	....86..	tcatttatatat	taatatct-----
D.Ere	ctccccga	ac-----gcacc	TAAAAGCGTTTCTTG	ccagcccgttaagtgctctt	....86..	tcatttatgtaa	taatcatc-----
D.Gri	ttgagttg	aa-----gcacc	TAAAAGCGTTTCTTG	ATAGctttttaa	...82..	acaatcgatta	cacaaat-----	
D.Moj	tatggtag	atatatgataatagtgacc	TAAAAGCGTTTCTTGATTG	ctttttaa	...135..	gtatatacattt	taacgtct-----	
D.Per	cttggggg	agata-----gcacc	TAAAAGCGTTTCTTG	ccagcccataaatgctctt	....93..	-----acacca	tgaaaccctgaga
D.Pse	cttggggg	atata-----gcacc	TAAAAGCGTTTCTTG	ccagcccataaatgctctt	....93..	-----acacca	tgaaaccctgaga
D.Vir	gtaggtag	atatatgatataa	-----gcacc	TAAAAGCGTTTCTTGATTG	ctttttaa	...87..	cttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----gcacc	TAAAAGCGTTTCTTG	ccagcccgttaagtgctctc	....86..	tcatttaagtat	taatatct-----
		*	*****	**	***	**	*	

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	aggataag	gtaaatatctct...324...-----aattttggc	ttttatgatta	TGAGAAAAC	atGCTTTTG	catttagctcagcactcaaa...68..	ttctacctttag	gtgctcag	
D.Sim	aggataag	gtaaatatctct...334...-----aattttggc	ttttatgatta	TGAGAAAAC	atGCTTTTG	catttagctcagcactcagc...66..	ttctacctttag	gtgctcag	
D.Sec	aggataag	gtaaatatctct...327...-----taatttcgc	ttttatgatta	TGAGAAAAC	atGCTTTTG	catttagctcagcactcagc...66..	ttctacctttag	gtgctcag	
D.Ere	aggataag	gtaaatatctct...336...-----aattttggc	ttttatgatta	TGAGAAAAC	atGCTTTTG	catttagctcagcactcagc...76..	ttctacctttag	gtgctcag	
D.Gri	aggataag	gtgagcatcgt...311...---tttaattta	agcctttatga	TTATGAGAAAAC	atGCTTTTG	catttagctgccttcccctt...115..	ttattacacag	gtgctcag	
D.Moj	aggacaag	gtaagcaatcaa...255...gtattta	aattttagctttta	TGATTA	atAGAAAAC	atGCTTTTG	catttagctcgttccagcc...104..	acacagcacag	gtgctcag
D.Per	aggacaag	gtaagtagcgc...398...-----aattttggc	ttttatgatta	TGAGAAAAC	atGCTTTTG	catttagggtatacgccata...130..	taccgtccgag	gtgcttag	
D.Pse	aggacaag	gtaagtagcgc...382...-----aattttggc	ttttatgatta	TGAGAAAAC	atGCTTTTG	catttagggtatacgccata...117..	taccgtccgag	gtgcttag	
D.Vir	aggataag	gtgagatcata...308...gcattta	aattttagcctttta	TGATTA	atAGAAAAC	atGCTTTTG	catttagctggctgcctgct...87..	ttatacacag	gtgctcag
D.Yak	aggataag	gtaaatatctct...353...-----aattttggc	ttttatgatta	TGGGAAAAC	atGCTTTTG	catttagcccagcactcagc...66..	ttctacctttag	gtgctcag	
		**** **	** * *	**	*****	*****	**	***** **	

id=61012 gene=FBgn0052057 name=dpr10 segment=chr3L.10143602_10144075_-1 type=IN

Figure 116: CS=10.8



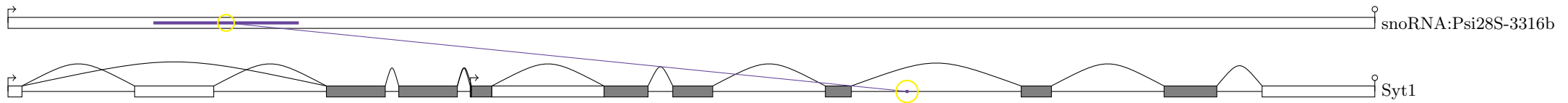
D. Mel	ctcggcgg	ac-----	gcacctaa	AAGCGTTTTCTTG	ccagcccgttaagtgcctc...	86...	tcatttatata	tagtatct-----
D. Sim	ctcggcgg	ac-----	gcacctaa	AAGCGTTTTCTTG	ccagcccgttaagtgcctc...	86...	tcatttatata	taatatct-----
D. Sec	ctcagcgg	ac-----	gcacctaa	AAGCGTTTTCTTG	ccagcccgttaagtgcctc...	86...	tcatttatata	taatatct-----
D. Ere	ctccccga	ac-----	gcacctaa	AAGCGTTTTCTTG	gacagcctgtaagtgcctc...	86...	tcatttatgtaa	taatcatc-----
D. Gri	ttgagttg	aa-----	gcacctaa	AAGCGTTTTCTTG	gatagcttttaaacgcctc...	86...	acaatcgtatta	cacaaaat-----
D. Moj	tatggtag	atatatgataatatagtgg	gcacctaa	AAGCGTTTTCTTG	attgcttttaaacgcgcct...	139...	gtataacattt	taactct-----
D. Per	cttggggg	agata-----	gcacctaa	AAGCGTTTTCTTG	ccagcccaataaatgcctc...	93...	-----acacca	tgaaacccgtgaga
D. Pse	cttggggg	atata-----	gcacctaa	AAGCGTTTTCTTG	ccagcccaataaatgcctc...	93...	-----acacca	tgaaacccgtgaga
D. Vir	gtaggtag	atatatgatataa----	gcacctaa	AAGCGTTTTCTTG	attgcttttaaacgcgcct...	91...	cttttataaga	tagattat-----
D. Yak	ctcggcgg	ac-----	gcacctaa	AAGCGTTTTCTTG	ccagccccttaagtgcctc...	86...	tcatttaagtat	taatatct-----
		*		*****	**	***	**	*

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D. Mel	aaaactaa	gtaggtcgaatg...	422...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	554...	aattattcccag	gttacaac
D. Sim	aaaactaa	gtaggtcgaatg...	403...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	531...	tattattcccag	gttacaac
D. Sec	aaaactaa	gtaggtcgaatg...	424...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	557...	catcattcccag	gttacaac
D. Ere	aaaactaa	gtaggtcgaatg...	420...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	569...	aaccattctcag	gttacaac
D. Gri	aaaattga	gtaggtgatag...	921...	cttcaactgaatgcatgtccc	CAAGAAAAtGCTT	gaacggtggcacctgcctag...	657...	tttcgattcag	gttacaac
D. Moj	caaattaa	gtaggtctacag...	866...	cctccctgaatgcatgtccc	CAAGAAAAtGCTT	gaacggtggcacctgcctag...	381...	ttcaatattcag	gttacaat
D. Per	gaagctga	gtacgtgatgg...	868...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	791...	tttcctcctag	gctacaac
D. Pse	gaagctga	gtacgtgatgg...	898...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	762...	tttcctcctag	gctacaac
D. Vir	aaaattaa	gtaggtccacag...	1434...	cctccctgaatgcatgtccc	CAAGAAAAtGCTT	gaatggtggcacctgcctag...	672...	tctgatattcag	gttacaac
D. Yak	aaaactaa	gtaggtgcaatg...	422...	cctccctgaatgcatgtccc	CAAGAAAACtGCTT	gaacggtggcacctgcctgg...	517...	agacaatcacag	gttacaac
	** * *	*** ** * *		** *****	*****	*****		** * *****	

id=26648 gene=FBgn0259685 name=crb segment=chr3R.20132864_20133917_1 type=IN

Figure 117: CS=12



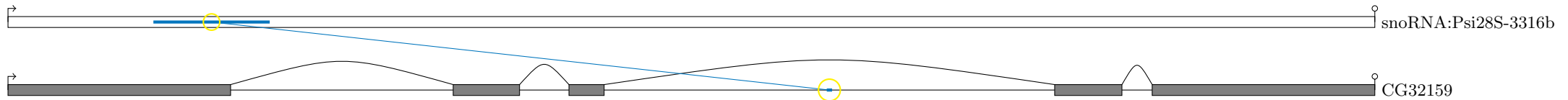
D.Mel	ctcggcgg	ac-----gcaccTAAAagCGTTTCTTGCCagcccgttaagtgctctcga...84...tcatttatatat	tagtatct-----
D.Sim	ctcggcgg	ac-----gcaccTAAAagCGTTTCTTGCCagcccgttaagtgctcttga...84...tcatttatatat	taatatct-----
D.Sec	ctcagcgg	ac-----gcaccTAAAagCGTTTCTTGCCagcccgttaagtgctcttga...84...tcatttatatat	taatatct-----
D.Ere	ctccccga	ac-----gcaccTAAAagCGTTTCTTGacagcctgtaagtgctctt...86...tcatttatgtaa	taatcatc-----
D.Gri	ttgagttg	aa-----gcaccTAAAagCGTTTCTTGatagctttttaaacgctcct...86...acaatcgattata	cacaaaa-----
D.Moj	tatggtag	atatatgataatagtgaccTAAAagCGTTTCTTGattgctttttaaacgcgct...139...gtatatacattt	taacgtct-----
D.Per	cttggggg	agata-----gcaccTAAAagCGTTTCTTGccagcccaataaatgctcct...93...-----acacca	tgaaccctgaga
D.Pse	cttggggg	atata-----gcaccTAAAagCGTTTCTTGccagcccaataaatgctcct...93...-----acacca	tgaaccctgaga
D.Vir	gtaggtag	atatatgatataa-----gcaccTAAAagCGTTTCTTGattgctttttaaacgcgct...91...ctttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----gcaccTAAAagCGTTTCTTGCCagcccgttaagtgctctcga...84...tcatttaagtat	taatatct-----
		* ***** ** ** *	

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	attgtctg	gtaatgtggcgt...199...cttcttcagactggcacaacGGCAAGGcAACGTTTGctgttgaacaaaaagcga-...1102...ccaatattatag	atccatat
D.Sim	actgtctg	gtaatgtggcgt...200...cttcttcagactggcacaacGGCAAGGcAACGTTTGctgttgaacgaaaaagaaa-...1120...ccaatattatag	atccatat
D.Sec	actgtctg	gtaatgtggcgt...198...cttcttcagactggcacaacGGCAAGGcAACGTTTGctgttgaacgaaaaaaag-...1115...ccaatattatag	atccatat
D.Ere	actgtctg	gtaatgtggcgt...198...--cttcttcagactggcacaacGGCAAGGcAACGTTTGctgttataacgaaaaaacga-...1162...ccaatattatag	atccatat
D.Gri	attgtctg	gtaaatgtggcgt...192...--caatggagaaatgcaaacgcCAAGGcAACGTTTGcagagagc-aaaatattcaat...1207...tctattttatag	atccatat
D.Moj	attgtctg	gtaaatgtggcgt...220...--aaataatgaaatgcaaacgcCAAGGcAACGTTTGcatcgagc-aaaatattcaaa...1350...tctattttatag	atccatat
D.Per	actgtctg	gtaaatgtggagt...173...--gtccaaggcaatgcaaacgcCAAGGcAACGTTTGctcgagaaaaaaacaa-...1114...cctatattatag	atccatat
D.Pse	actgtctg	gtaaatgtggagt...173...--gtccaaggcaatgcaaacgcCAAGGcAACGTTTGctcgagaaaaaaacaa-...1100...cctatattatag	atccatat
D.Vir	attgtctg	gtaatataacgt...194...--aaacgaagaatgcaaacgcCAAGGcAACGTTTGcagagagcaaaaatattcaa-...1237...tctattttatag	atccatat
D.Yak	actgtctg	gtaatgtggcgt...207...cttcttcagactggcacaacGGCAAGGcAACGTTTGctgttataaaaaaaatcaa-...1112...ccaatattatag	atccatat
		* ***** ** ** *	

id=55586 gene=FBgn0004242 name=Syt1 segment=chr2L.2785673_2787053_-1 type=IN

Figure 118: CS=10.8



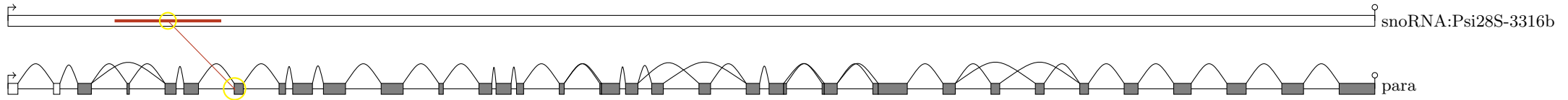
D.Me1	ctcggcgg	ac-----	gcacCTAAAaGCGTTTTc	-----	ttgcca---	gcccgtaaagtgt...	89...	tcatttatatat	tagtatct----
D.Sim	ctcggcgg	ac-----	gcacCTAAAaGCGTTTTc	-----	ttgcca---	gcccgtaaagtgt...	89...	tcatttatatat	taatctct----
D.Sec	ctcagcgg	ac-----	gcacCTAAAaGCGTTTTc	-----	ttgcca---	gcccgtaaagtgt...	89...	tcatttatatat	taatctct----
D.Gri	ttgagttg	aa-----	gcaccTAAAaGCGTTTTc	TGATaGCTT	ttttaa	acgctcctgaaaatc	...	79...	acaatcgtatta
D.Moj	tatggtag	atatatgataat	atagtgaccTAAAaGCGTTTTc	TGATTGCT	ttttaa	acgcgctgaaaat	...	133...	gatatacattt
D.Per	cttggggg	agata-----	gcacCTAAAaGCGTTTTc	-----	ttgcca---	gcccaataaatgt...	96...	-----	acacca
D.Pse	cttggggg	atata-----	gcacCTAAAaGCGTTTTc	-----	ttgcca---	gcccaataaatgt...	96...	-----	acacca
D.Vir	gtaggtag	atatatgatataa	-----	gcaccTAAAaGCGTTTTc	TGATTgcTTTTT	aaacgcgctgaaaatc	...	81...	cttttataaga
D.Yak	ctcggcgg	ac-----	gcacCTAAAaGCGTTTTc	-----	ttgcca---	gcccttaagtgt...	89...	tcattaagtgt	taatatct----
		* * *	*****	** *	** *	** *			

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Me1	agaagaag	gtgagctcattc	...	1353...	-----	ggaactgtacagcaaattat	-----	GAAAATGCgTTTAG	-----	ctggaaaacagaaaacaaga	---	...	827...	tttcttatttag	gccatcac
D.Sim	agaagaag	gtgagctcattc	...	1339...	-----	ggaactgtacagcaaattat	-----	GAAAATGCgTTTAG	-----	ctggaaaacagaaaacaaga	---	...	895...	ttccctatttag	gccatcac
D.Sec	agaagaag	gtgagctcattc	...	1348...	-----	ggaactgtacagcaaattat	-----	GAAAATGCgTTTAG	-----	ctggaaaacagaaaacaaga	---	...	896...	ttccctatttag	gccatcac
D.Gri	agaagaag	gtaag--ttgcat	...	639...	---ttgctg	caactgtaccaaac	---	AAGCaaATTAtGAAAATGCgTTTA	---	agcgag	caagtgtataaaat	---	...	786...	gctgttcacag
D.Moj	agaagaag	gtaagttctgcc	---	...	768...	cttgccggaactgtaccact	---	AGCAaaATTAtGAAAATGCgTTTA	---	aaaagctgacaacggactgc	...	1624...	ctcgtcaacag	gcaattac	
D.Per	aaaagaag	gtaagaacatcc	---	...	1400...	ggaactgtacagcaaattat	-----	GAAAATGCgTTTAG	-----	ctggaaaacaagagcagagg	---	...	715...	ttgcatgattag	gcaatcac
D.Pse	aaaagaag	gtaagaacatcc	---	...	1392...	ggaactgtacagcaaattat	-----	GAAAATGCgTTTAG	-----	ctggaaaacaagagcagagg	---	...	693...	ttgcatgattag	gccatcac
D.Vir	agaagaag	gtaag-tctgcc	---	...	933...	ggaactgtaccagagcgcac	AGGAAAATTAtGAAAATGCgTTTA	agctag	aaaaaactggcacag	-----	...	592...	tcaaccaacag	gcaattac	
D.Yak	agaagaag	gtgagctcattc	---	...	1294...	ggaactgtacagcaaattat	-----	GAAAATGCgTTTAG	-----	ctggaaaacagaaaacaaga	---	...	852...	tctcatttag	gccatcac
	* *****	** ** *			*	*****		*****		*			**	** ** **	

id=52468 gene=FBgn0052159 name=CG32159 segment=chr3L.16417419_16419676_-1 type=IN

Figure 119: CS=10.8



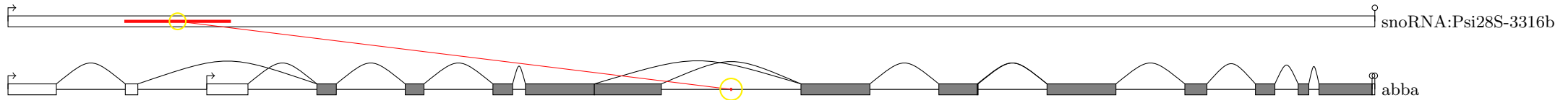
D.Mel	ctcggcgg	ac-----gCACCTAAAAGCG	ttttcttgccagcccgttaa...94...tcatttatatat	tagtatct-----	
D.Sim	ctcggcgg	ac-----gCACCTAAAAGCG	ttttcttgccagcccgttaa...94...tcatttatatat	taatatct-----	
D.Ere	ctccccga	ac-----gCACCTAAAAGCG	ttttcttgacagcctgttaa...94...tcatttatgtaa	taatcatc-----	
D.Gri	ttgagttg	aa-----gCACCTAAAAGCG	ttttcttgatagctttttaa...94...acaatcgtatta	cacaaaat-----	
D.Moj	tatggtag	atatatgataatatagtg	CACCTAAAAGCG	ttttcttgattgctttttaa...147...gtatatacattt	taactgct-----
D.Per	cttggggg	agata-----gCACCTAAAAGCG	ttttcttgccagccaataa...101...-----acacca	tgaaccctgaga	
D.Pse	cttggggg	-----ATATagCACCTAAAAGCG	ttttcttgccagccaataa...101...-----acacca	tgaaccctgaga	
D.Vir	gtaggtag	atatatgatataa----	gCACCTAAAAGCG	ttttcttgattgctttttaa...99...cttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----gCACCTAAAAGCG	ttttcttgccagcccgttaa...94...tcatttaagtat	taatatct-----	
		*****	**	***	

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	tccactga	gtaagtagccc...3969...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Sim	tccactga	gtaagtagccg...3869...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Ere	tccactga	gtaagtagccc...3928...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Gri	tccactga	gtaagtattgtt...4195...aatgcat-tcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Moj	tccactga	gtaagtattccc...4459...tttccat-tcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Per	tccactga	gtaagtacaccg...4645...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Pse	tccactga	gtaagtacaccg...4652...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTG	GATAt
D.Vir	tccactga	gtaagtactgtc...4012...attgcat-tcgaaattcaatt	CGTTTTTA	GGTG	Gatata
D.Yak	tccactga	gtaagtagccc...3979...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTG	Gatata
	*****	*****	* **	*****	*****

id=51986 gene=FBgn0260993 name=para segment=chrX.16403738_16407747_-1 type=IN

Figure 120: CS=11.7



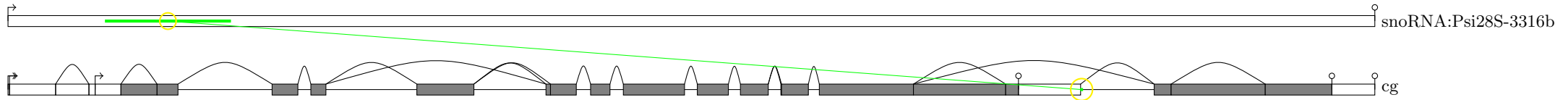
D.Mel	ctcggcgg	ac-----gc	ACCTAAAAGCGT	ttccttgccagcccgttaagt...92...tcatttatatat	tagtatct-----
D.Sim	ctcggcgg	ac-----gc	ACCTAAAAGCGT	ttccttgccagcccgttaagt...92...tcatttatatat	taatct-----
D.Sec	ctcagcgg	ac-----gc	ACCTAAAAGCGT	ttccttgccagcccgttaagt...92...tcatttatatat	taatct-----
D.Ere	ctccccga	ac-----gc	ACCTAAAAGCGT	ttccttgacagcctgtaagt...92...tcatttatgtaa	taatct-----
D.Gri	ttgagttag	aa-----gc	ACCTAAAAGCGT	ttccttgatagccttttaaac...92...acaatcgatta	cacaaaat-----
D.Moj	tatggttag	atatatgataatagtggc	ACCTAAAAGCGT	ttccttgattgcttttaaac...145...gtatatacattt	taacgtct-----
D.Per	cttggggg	agata-----gc	ACCTAAAAGCGT	ttccttgccagcccaataaat...99...-----acacca	tgaaacccgtgaga
D.Pse	cttggggg	atata-----gc	ACCTAAAAGCGT	ttccttgccagcccaataaat...99...-----acacca	tgaaacccgtgaga
D.Vir	gtaggttag	atatatgatataa-----gc	ACCTAAAAGCGT	ttccttgattgcttttaaac...97...cttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----gc	ACCTAAAAGCGT	ttccttgccagcccgttaagt...92...tcatttaagtat	taatct-----
	*		*****	**	***

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527.1 type=EN

D.Mel	agattgag	gtcacggatgaa...596...cttgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	ctgaaccttttgccctcact--...1507...acaatccaacag	tcgaagcc	
D.Sim	agattgag	gtcacggatgaa...610...cttgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	ctgaaccttttgccctcact--...1476...acaatccaacag	tcgaagcc	
D.Sec	agattgag	gtcacggatgaa...611...cttgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	ctgaaccttttgccctcact--...1484...acaatccaacag	tcgaagcc	
D.Ere	agattgag	gttacggatgag...625...cttgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	ctgaaccttttgccctcact--...1521...acaatccaacag	tcgaagcc	
D.Gri	aggaggag	ggggaggatgag...561...-tagtgagcgcctttcatttt	AATGCTg	TTTTGGGT	ccaaaccttttccaacaatc--...1394...cctaccaacag	tccaaacc	
D.Moj	aggaggag	gaggaggaggaa...1592...atttgttctgtgttatt-	AATGCTg	TTTTGGGT	ccaaaccttttccaacaatc--...2379...cctaccaacag	tccaaacc	
D.Per	agatagaa	gtgaccgatgac...524...ctcgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	cagaaccttttgcttgaag--...1368...accaccaacag	tcgaaacc	
D.Pse	agatagaa	gtgaccgatgac...524...ctcgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	cagaaccttttgcttgaag--...1372...accaccaacag	tcgaaacc	
D.Vir	aaagcgaa	tccgaggcagag...522...-tgtggagcgcctttcatttt	AATGCTg	TTTTGGGT	ccaa--ccttttcaacaatcag...1586...cctaccaacag	tccaaacc	
D.Yak	agattgag	gtcacggatgag...599...cttgtgagcgcctttcacct-	AATGCTg	TTTTGGGT	ctgaaccttttgccccact--...1549...acaatccaacag	tcgaagcc	
	*	**	*	**	*	*****	**

id=102167 gene=FBgn0034412 name=abba segment=chr2R.14886415_14888596.1 type=IN VIEW

Figure 121: CS=10.8



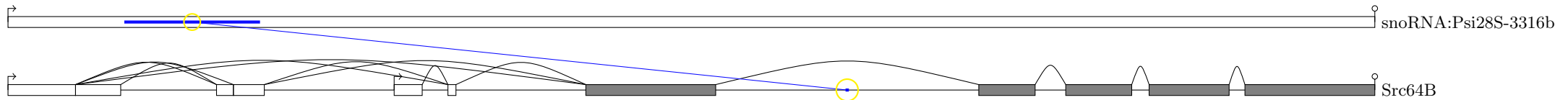
D.Mel	ctcggcgg	ac-----	GCACCTAAAAGCGT	tttcttgccagcccgttaag...93..tcatttatatat	tagtatct-----
D.Sim	ctcggcgg	ac-----	GCACCTAAAAGCGT	tttcttgccagcccgttaag...93..tcatttatatat	taatatct-----
D.Sec	ctcagcgg	ac-----	GCACCTAAAAGCGT	tttcttgccagcccgttaag...93..tcatttatatat	taatatct-----
D.Ere	ctcccga	ac-----	GCACCTAAAAGCGT	tttcttgacagcctgtaag...93..tcatttatgtaa	taatcatc-----
D.Gri	ttgagttg	aa-----	GCACCTAAAAGCGT	tttcttgatagctttttaa...93..acaatcgatta	cacaaat-----
D.Moj	tatggtag	atatatgataatagtg	GCACCTAAAAGCGT	tttcttgattgctttttaa...146..gtatatacattt	taacgtct-----
D.Per	cttggggg	agata-----	GCACCTAAAAGCGT	tttcttgccagcccaataaa...100..-----acacca	tgaaccggtgaga
D.Pse	cttggggg	atata-----	GCACCTAAAAGCGT	tttcttgccagcccaataaa...100..-----acacca	tgaaccggtgaga
D.Vir	gtaggtag	atatatgatataa----	GCACCTAAAAGCGT	tttcttgattgctttttaa...98..ctttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----	GCACCTAAAAGCGT	tttcttgccagcccgttaag...93..tcatttaagtat	taatatct-----
		*	*****	**	***

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	-----atgataaa	tacaaccacaaa...288...	ccattcaaaggcttcagttt GCGCg-TTTAG	gtGTGTat
D.Sim	-----atgataaa	tacaaccacaaa...279...	ccattcaaaggcttcagttt GCGCg-TTTAG	gtGTGTat
D.Sec	-----atgataaa	tacaaccacaaa...278...	ccattcaaaggcttcagttt GCGCg-TTTAG	gtGTGTat
D.Ere	-----aagataaa	taaaaccacaaa...281...	ccattcaaaggcctcagttt GCGCg-TTTAG	gtGTGTat
D.Gri	atcaactgaacaataat	aaa-----...307...	cgcaaaaaaggcttcactgt GCGCgTTT	gtGTGTat
D.Moj	-----atgctaaa	gaaaactacatt...300...	tgcaaaaaaggcttcactgt GCGCgTTT	gtGTGTat
D.Per	gaaacagatacagaaag	aaa-----...300...	ccgttcagtggcttcaggtt GCGCg-TTTAG	gtGTGTat
D.Pse	gaaacagatacagaaag	aaa-----...301...	ccgttcagtggcttcaggtt GCGCg-TTTAG	gtGTGTat
D.Vir	-----acaataat	aaaagctaaaga...256...	caaaataaaggcttcactgt GCGCgTTT	gtGTGTat
D.Yak	-----aatataaa	taaaaccacaaa...281...	ccattcaaaggcctcagttt GCGCg-TTTAG	gtGTGTat
	* **	*	* ** * **	*****

id=19160 gene=FBgn0000289 name=cg segment=chr2R.10067995_10068324_1 type=AN VIEW

Figure 122: CS=15.5



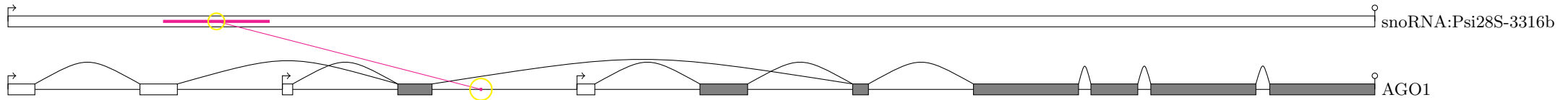
D.Mel	ctcggcgg-----	ACGCACCT aa AAGCGTTT cttgccagcccgttaagtgc-----	...90...tcatttatatat	tagtatct-----
D.Sim	ctcggcgg-----	ACGCACCT aa AAGCGTTT cttgccagcccgttaagtgc-----	...90...tcatttatatat	taatatct-----
D.Sec	ctcagcgg-----	ACGCACCT aa AAGCGTTT cttgccagcccgttaagtgc-----	...90...tcatttatatat	taatatct-----
D.Gri	ttgagttgaagc-----	---- ACCT aa AAGCGTTTTCTT ga TAGCT ttttaaacgctcctgaaaat....	80...acaatcgtatta	cacaaaat-----
D.Moj	tatggtagatatgataatata G	TGGcACCT aa AAGCGTTT cttgattgcttttaaacgc-----	...143...gtatatacattt	taactgct-----
D.Per	cttgggggagatagc-----	---- ACCT aa AAGCGTTT cttgccagcccaataaatgc-----	...97...-----acacca	tgaaccggtgaga
D.Pse	cttggggga-----	TA TA gc ACCT aa AAGCGTTT cttgccagcccaataaatgc-----	...97...-----acacca	tgaaccggtgaga
D.Vir	gtaggtagatatgatataagc-	---- ACCT aa AAGCGTTTTCTTGATT gcttttaaacgcgctgaa---	...88...cttttataaga	tagattat-----
D.Yak	ctcggcgg-----	ACGCACCT aa AAGCGTTT cttgccagcccgttaagtgc-----	...90...tcatttaagtat	taatatct-----
	* *	*****	** *** **	

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	cacaccaa	gtgagtactttc...1208...cttatagcatatatggccgt-----	AAAGC c GCTTAGGT c GTGT aaaccaccgagagg-ttgag...582...tataacttccag	cgggtgtt
D.Sim	cacaccaa	gtgagtacatcc...1206...cttatagcatatatggccgt-----	AAAGC c GCTTAGGT c GTGT aaaccaccgagagg-ttgag...562...tataacttccag	ccggcggtt
D.Sec	cacaccaa	gtgagtacttcc...1196...cttatagcatatatgaccgt-----	AAAGC c GCTTAGGT c GTGT aaaccaccgagagg-ttgag...562...tataacttccag	ccggcggtt
D.Gri	cacaccga	gtaagtagaacc...1629...--ttgcgtgtgtgtccagatt AGTTG a GGA AAAGC g GCTTAGGT cgtgtaagctcgacaaaggc-----	...861...tttctctctcag	ctggcgta
D.Moj	cacaccaa	gtaagtgtagtt...1377...--aatcagattttagttcacgt-----	AAAGC c GCTTAGGT c TTGT aaacctgtcaaatgctttga-...553...cctcttagctg	ctggtgtg
D.Per	cacaccaa	gtgagtggacgg...875...--gggctgctcgatgccccgtt-----	AAAGC c GCTTAGGT cgtgtaaacccatcaaaatc-----	...675...ccctgccacag
D.Pse	cacaccaa	gtgagtggacga...888...--gggctgctcgatgccccgtt-----	AAAGC c GCTTAGGT c TGTA aaacctcaaaatcgccgag...648...ccctgccacag	ctggcggtt
D.Vir	cacgcaa	gtaagtctaata...2048...--gtgtctatgctccagatt AGTTG gc AAAGC g GCTTAGGT cgtgtaaacccgtcaaatgc-----	...799...ttctattagcag	ccggcggtg
D.Yak	cacaccaa	gtgagtacttcc...1206...cttatagcatatatggccgt-----	AAAGC c GCTTAGGT c GTGT aaaccaccgagagg-ttgag...588...tcatacttccag	ccgggtgtt
	*** ** *	** ***	*****	***** * * *

id=90909 gene=FBgn0003501 name=Src64B segment=chr3L.4596281_4598153_-1 type=IN

Figure 123: CS=10.8



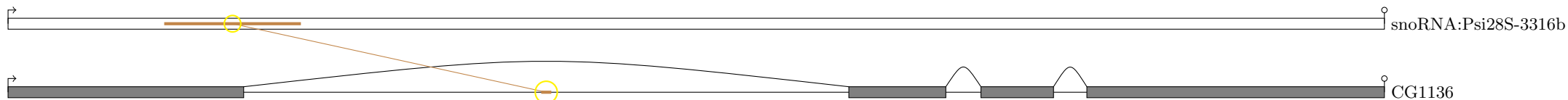
D.Mel	ctcggcgg	ac-----g	cacctAAAAGCGTTTTCTTGCC	agcccgttaagtgctctcga	-----...84...	tcatttatatat	tagtatct-----
D.Sim	ctcggcgg	ac-----g	cacctAAAAGCGTTTTCTTGCC	agcccgttaagtgctcttga	-----...84...	tcatttatatat	taatatct-----
D.Sec	ctcagcgg	ac-----g	cacctAAAAGCGTTTTCTTGCC	agcccgttaagtgctcttga	-----...84...	tcatttatatat	taatatct-----
D.Ere	ctcccga	ac-----g	cacctAAAAGCGTTTTCTTGA	cagcctgtaagtgctcttg	-----...85...	tcatttatgtaa	taatcatc-----
D.Gri	ttgagttg	aa-----g	cacctAAAAGCGTTTTCTTGA	atagctttttaaagcgtcct	-----...86...	acaatcgtatta	cacaaat-----
D.Moj	tatggtag	atatatgataatagtg	cacctAAAAGCGTTTTCTTGA	atagctttttaaagcgtcct	-----...132...	gtatatacattt	taacgtct-----
D.Per	cttggggg	agata-----g	cacctAAAAGCGTTTTCTTGA	cttgcagcccaataaatgct	-----...96...	acacca	tgaaaccgtgaga
D.Pse	cttggggg	atata-----g	cacctAAAAGCGTTTTCTTGA	cttgcagcccaataaatgct	-----...96...	acacca	tgaaaccgtgaga
D.Vir	gtaggtag	atatatgatataa	gacctAAAAGCGTTTTCTTGA	atagctttttaaagcgtcct	-----...91...	ctttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----g	cacctAAAAGCGTTTTCTTGCC	agccccttaagtgctctcga	-----...84...	tcatttaagtat	taatatct-----
		*	*****	**	***	**	

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	agtctacg	gtgagtgtggca...184...	--catgtcccgctatcgat	atc-----GGTGAAAAGCGCTTTT	ccgactcaccgtgtggactt...426...	acaatthttgtg	tggacgtc
D.Sim	agtctacg	gtgagtgtggca...183...	--catgccccgctatcgat	atc-----GGTGAAAAGCGCTTTT	ccgactcaccgtgtggactt...425...	acaatthttgtg	tggacgtc
D.Sec	agtctacg	gtgagtgtggca...183...	--catgccccgctatcgat	atc-----GGTGAAAAGCGCTTTT	ccgactcaccgtgtggactt...423...	acaatthttgtg	tggacgtc
D.Ere	agtctacg	gtgagtgtggca...172...	cgatgtcccgctatcgta	-----TCGGTGGAAAAGCGCTTTT	ccgactcaccgtgtggactt...433...	acaatthttgtg	tggacgtc
D.Gri	ggtttatg	gtaagtttcagc...181...	-----ataaatattgtatggggcgc	TGGGAAAAGCGCTTTT	ccaaccctaccctacatacc...651...	aaaatthttgtg	tttgctgc
D.Moj	ggtttatg	gtaagtttcagc...176...	-----tttcataatcgataaattgt	GGGTGcTGGGAAAAGCGCTTTT	ccaaccctaccctaccctca...659...	aaaatthttgtg	tttgctgc
D.Per	ggtctacg	gtaagttttcat...157...	--atgtttcataatcgataa	at-----GAAAAGCGCTTTT	ccccagatttcctcccact...439...	acgattthttgtg	tggacggt
D.Pse	ggtctacg	gtaagttttcat...163...	--atgtttcataatcgataa	at-----GAAAAGCGCTTTT	ccccagatttcctcccact...439...	acgattthttgtg	tggacggt
D.Vir	ggtttatg	gtaagttcaagc...169...	-----taatcgataaactggcgcgc	TGGGAAAAGCGCTTTT	ccaaccctattgctgtcata...665...	aaaatthttgtg	tttgctgc
D.Yak	agtctacg	gtgagtgtggca...173...	--catgtcccgctatcgat	atc-----GGTGAAAAGCGCTTTT	ccgactcaccgtgtggactt...433...	acaatthttgtg	tggacgtc
	** ** *	** ** *	** **	* **	*****	* * **	* *

id=86201 gene=FBgn0026611 name=AGO1 segment=chr2R.9841502_9842191_-1 type=IN VIEW

Figure 124: CS=12



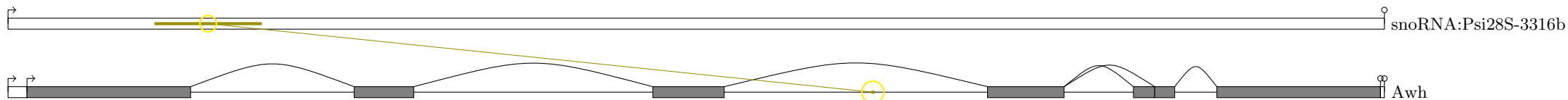
D. Mel	ctcggcgg	ac-----	gcacct	AAAAGCGTTTTCTTG	ccagcccgttaagtgctctc...	86...	tcatttatata	tagtatct-----
D. Sim	ctcggcgg	ac-----	gcacct	AAAAGCGTTTTCTTG	ccagcccgttaagtgctctt...	86...	tcatttatata	taatatct-----
D. Sec	ctcagcgg	ac-----	gcacct	AAAAGCGTTTTCTTG	ccagcccgttaagtgctctt...	86...	tcatttatata	taatatct-----
D. Ere	ctccccga	ac-----	gcacct	AAAAGCGTTTTCTTG	ccagcccgttaagtgctctt...	86...	tcatttatata	taatatct-----
D. Gri	ttgagttg	aa-----	gcacct	AAAAGCGTTTTCTTG	atagcttttaaacgctcct...	86...	acaatcgtatta	cacaaat-----
D. Moj	tatggtag	atatatgataatatagtgg	gcacct	AAAAGCGTTTTCTTG	attgcttttaaacgctcct...	139...	gtatatacattt	taactct-----
D. Per	cttggggg	agata-----	gcacct	AAAAGCGTTTTCTTG	gccagcccaataaatgctct-	94...	-----acacca	tgaaccctgaga
D. Pse	cttggggg	atata-----	gcacct	AAAAGCGTTTTCTTG	gccagcccaataaatgctct-	94...	-----acacca	tgaaccctgaga
D. Vir	gtaggtag	atatatgatataa----	gcacct	AAAAGCGTTTTCTTG	attgcttttaaacgctcct...	91...	cttttataaga	tagattat-----
D. Yak	ctcggcgg	ac-----	gcacct	AAAAGCGTTTTCTTG	ccagcccgttaagtgctctc...	86...	tcatttaagtat	taatatct-----
		*		*****	**	***	**	*

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D. Mel	---cgtggctg	gtaagtggcctt...	3235...	aagtaacaaaattgcg	cgcc-CAAGg	AAAACGTga	TTTT	ccacttttgatcgcgcccaa...	1672...	ctttcctttcag	ctggctct
D. Sim	---cgtggctg	gtaagtggcctt...	3267...	aagtaacaaaattgcg	cgcc-CAAGg	AAAACGTga	TTTT	ccacttttgatcgcgcccaa...	1640...	ctttcctttcag	ctggctct
D. Sec	---cgtggctg	gtaagtggcctt...	3306...	aagtaacaaaattgcg	cgcc-CAAGg	AAAACGTga	TTTT	ccacttttgatcgcgcccaa...	1601...	ctttcctttcag	ctggctct
D. Ere	---cgtggctg	gtaagtggcctt...	3251...	aagtaacaaaattgcg	cgcc-CAAGg	AAAACGTga	TTTT	ccacttttgatcgcgcccaa...	1656...	ctttcctttcag	ctggcttt
D. Gri	tcagtggcgtg	aagagcat---t...	3181...	gcgccacttaaatgcg	cgcc-CAAGAAA	ACGTga	TTTT	ccacttttgattttgtttt...	1726...	tttcaattgcag	ctggcatt
D. Moj	---tgtatctg	gagagtgtgcaa...	3097...	gcggcacttaaatgcg	cgcc-CAAGAAA	ACGTga	TTTT	ccacttttgattttgtttt...	1810...	ttgtcattgcag	ctggcatt
D. Per	---tctgtctg	gtgagtgtttta...	3220...	gt-aacaaaattgcg	cgccaaAGGAAA	ACGTga	TTTT	ccacttttgattttgtttt...	1689...	gctttcctgcag	ctgctggc
D. Pse	---tctgtctg	gtgagtgtttta...	3210...	gt-aacaaaattgcg	cgccaaAGGAAA	ACGTga	TTTT	ccacttttgattttgtttt...	1699...	gctttcctgcag	ctgctggc
D. Vir	---tgtggctg	cagagcatacat...	3244...	gcaccgcttaaatgcg	cgcc-CAAGAAA	ACGTga	TTTT	ccacttttgattttgtttt...	1663...	tttctttgcag	ctggcatt
D. Yak	---cgtggctg	gtaagtggcctt...	3210...	aagtaacaaaattgcg	cgcc-CAAGg	AAAACGTga	TTTT	ccacttttgatcgcgcccaa...	1697...	ctttcctttcag	ctggctgt
		* ***	**	****	*****	**	*****		** ***	***	

id=64059 gene=FBgn0035490 name=CG1136 segment=chr3L.4047007_4057252_1 type=IN

Figure 125: CS=10.8



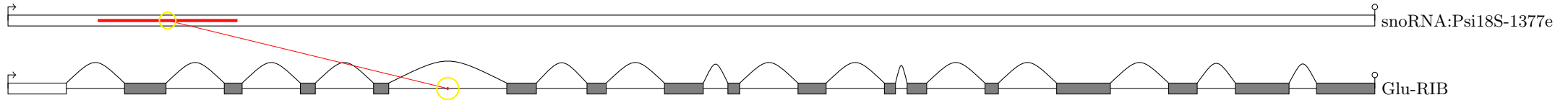
D.Mel	ctcggcgg	ac-----	gcaccTAAAGCGTTTT	cttgccagcccgttaagtgc...	90...	tcatttatatat	tagtatct-----
D.Sim	ctcggcgg	ac-----	gcacCTAAAGCGTTTT	cttgccagcccgttaagtgc...	90...	tcatttatatat	taatatct-----
D.Sec	ctcagcgg	ac-----	gcacCTAAAGCGTTTT	cttgccagcccgttaagtgc...	90...	tcatttatatat	taatatct-----
D.Ere	ctccccga	ac-----	gcacCTAAAGCGTTTT	cttgacagcctgtaagtgc...	90...	tcatttatgtaa	taatcacc-----
D.Gri	ttgagttg	aa-----	gcacCTAAAGCGTTTT	cttgatagctttttaaacgc...	90...	acaatcgtatta	cacaaaa-----
D.Moj	tatggtag	atataatgataatagtgac	CTAAAGCGTTTT	cttgattgctttttaaacgc...	143...	gtatatacattt	taactct-----
D.Per	cttggggg	agata-----	gcacCTAAAGCGTTTT	cttgccagcccataaatgc...	97...	-----acacca	tgaaccctgaga
D.Pse	cttggggg	atata-----	gcacCTAAAGCGTTTT	cttgccagcccataaatgc...	97...	-----acacca	tgaaccctgaga
D.Vir	gtaggtag	atataatgataaa-----	gcacCTAAAGCGTTTT	cttgattgctttttaaacgc...	95...	ctttttataaga	tagattat-----
D.Yak	ctcggcgg	ac-----	gcacCTAAAGCGTTTT	cttgccagcccgttaagtgc...	90...	tcatttaagtat	taatatct-----
		*	*****	**	***	**	

id=64250 gene=FBgn0082971 name=snoRNA:Psi28S-3316b segment=chr2R.17214387_17214527_1 type=EN

D.Mel	gagcgacg	gttagtattcta...	409...	tttcaatttggccgactgtc	AAAATGCTTTTA	-----caccaggcctagagtcactg-	...	320...	ttccattccag	agggctgt
D.Sim	gagcgacg	gttagtgtttta...	430...	tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcccagagtcactgg...	...	299...	ttccattccag	agggctgt
D.Sec	gagcgacg	gttagtgtttta...	430...	tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcctagagtcactgg...	...	295...	ttccattccag	agggctgt
D.Ere	gagcgacg	gttagtgtttta...	418...	tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcctagagtcactgt...	...	298...	ttccattccag	agggctgt
D.Gri	aagtgcag	gtaagcggaacc...	816...	tttcaatttgggtgactgtc	AAAATGCTTTTAG	----acgc---cggttaggcaggttc...	...	101...	gtatctctgtag	atggctgt
D.Moj	aagtgcag	gtaagcggaacc...	415...	tttcaatttgggtgactgtc	AAAATGCTTTTAG	----acac---aggcttaggcaggttc...	...	91...	ttctctgttag	atggctgt
D.Per	aagtgcag	gtaagcgaattg...	473...	tttcaatttgggtgactgtc	AAAATGCTTTTAG	----acc---taagtcagtggaat--...	...	88...	ttttctgttag	aaggctgt
D.Pse	aagtgcag	gtaagcgaattg...	467...	tttcaatttgggtgactgtc	AAAATGCTTTTAG	----acc---taagtcagtggaat--...	...	87...	ttttctgttag	aaggctgt
D.Vir	aagtgcag	gtaagcgaattg...	760...	tttcaatttgggtgactgtc	AAAATGCTTTTAG	acagacgcccgcgcttag-----	...	72...	cgattccatag	atggctgt
D.Yak	gagcgacg	gttagtatttta...	430...	tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcctggagtcactgg...	...	308...	ttccattccag	agggctgt
	** **	** **	*****	*****		*	*		**	*****

id=14736 gene=FBgn0013751 name=Awh segment=chr3L.3859385_3860189_1 type=IN

Figure 126: CS=14.5



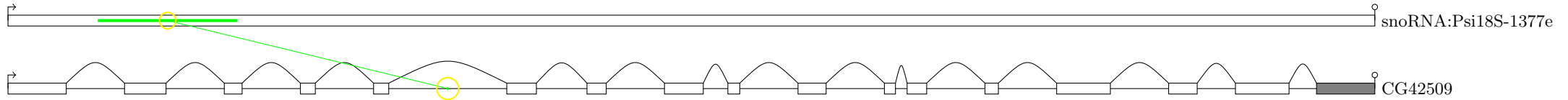
D.Mel	ttccat-ca	CGTT ct TGTGTTATT ttctggacgttgttcaagtc---...89...attgcaacagca	ccttacat
D.Sim	ttccat-ca	CGTT ct TGTGTTATT ttctggacgttgttcaagtc---...89...attgcaacagca	ccttacat
D.Sec	-tctgtcta	CGTT tt TGTGTTATT tgctggaagt-acatccaaa--...92...ctgccacagtt	ccttaca
D.Ana	-gctctata	CGTT ct TGTGTTATT ccctggatgct-ttacccata--...101...gccatatcttta	ccttata
D.Gri	-ttttaata	CGTT ct TGTGTTATT tgctgaatttagttatcat---...468...ctggttacatgc	ccctctcc
D.Per	-actatcca	CGTT tt TGTGTTATT cgctgaatgc---ccatcttggc...99...cgtgccacaaca	ccacaac
D.Pse	-actatcca	CGTT tt TGTGTTATT cgctgaatgc---ccatcttggc...99...cgtgccacaaca	ccacaac
D.Wil	-gttcagta	CGTT ct TGTGTTATT cgctgaactca-tttacctag--...76...attactacaaat	cccttgcg
D.Yak	ttctat-ta	CGTT ct TGTGTTATT ttctggacgtc-ttaaagtc--...88...attgcaacatag	ataataat
		* **** * * * * * * * * * * * * * * * * *	

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	ccacgatg	gtgagtacagcc...3653...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1258...tcactcccgcag	gtctgctg
D.Sim	ccacgatg	gtgagtacagcc...3649...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1262...tcactaccgcag	gtctgctg
D.Sec	ccacgatg	gtgagtacagcc...3648...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1263...tcactaccgcag	gtctgctg
D.Ana	ccacgatg	gtgagtacaacc...3877...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcagcagccagagga...1034...actattccgcag	gtctgctg
D.Gri	ccacgatg	gtgagtacaaa...3871...aagagagcgacag--ataactc	AATAAgCACAAATG	caaattgcgctcgcactcaa...1040...gctatttgtag	ggctgctg
D.Per	acacgatg	gtaagtagaaga...3580...--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgcagagga...1331...ctccattgcag	gcctcctg
D.Pse	acacgatg	gtaagtagaaga...3546...--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgcagagga...1365...ctccattgcag	gcctcctg
D.Wil	ccacgatg	gtgagttgagaa...3978...--gttagttgcagtcataactc	AATAAaCACAAATG	caaattgcttcagctagcat...933...ttgtttctacag	gattgctt
D.Yak	ccacgatg	gtgagtacagcc...3640...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1271...ttctaccgcag	gtctgctg
	*****	** ***	* ** *** ***** * * *		** * **

id=124597 gene=FBgn0028431 name=Glu-RIB segment=chr3L.9252055.9259414.1 type=IN

Figure 127: CS=12.42



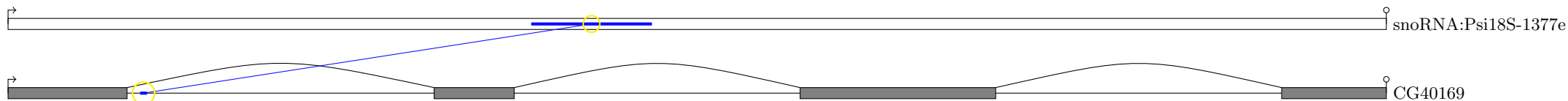
D.Mel	ttccat-ca	CGTTctTGTGTTATT	ttctggacgttgttcaagtc---...89...attgcaacagca	ccttacat
D.Sim	ttccat-ca	CGTTctTGTGTTATT	ttctggacgttgttcaagtc---...89...attgcaacagca	ccttacat
D.Sec	-tctgtcta	CGTTttTGTGTTATT	tgctggaagt-acatccaaa--...92...ctgcaccagtt	ccttaca
D.Ana	-gctctata	CGTTctTGTGTTATT	ccctggatgct-ttacctaa--...101...gccatatctta	ccttata
D.Gri	-ttttaata	CGTTctTGTGTTATT	tgctgaatttagttatcat---...468...ctggttacatgc	ccctctcc
D.Per	-actatcca	CGTTttTGTGTTATT	cgctgaatgc---ccatcttggc...99...cgtgccacaaca	ccacaac
D.Pse	-actatcca	CGTTttTGTGTTATT	cgctgaatgc---ccatcttggc...99...cgtgccacaaca	ccacaac
D.Wil	-gttcagta	CGTTctTGTGTTATT	cgctgaactca-tttacctag--...76...attactacaaat	cccttgcg
D.Yak	ttctat-ta	CGTTctTGTGTTATT	ttctggacgtc-ttaaagtc--...88...attgcaacatag	ataataat
		* **** * * * * * * * * * * *		*

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	ccacgatg	gtgagtacagcc...3653...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1258...tactaccgcag	gtctgctg
D.Sim	ccacgatg	gtgagtacagcc...3649...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1262...tactaccgcag	gtctgctg
D.Sec	ccacgatg	gtgagtacagcc...3648...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1263...tactaccgcag	gtctgctg
D.Ana	ccacgatg	gtgagtacacc...3877...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcagcagccagagga...1034...actattccgcag	gtctgctg
D.Gri	ccacgatg	gtgagtacaaa...3871...aagagagcgacag--ataactc	AATAAgCACAAATG	caaattgcgctcgcactcaa...1040...gctattttgtag	ggctgctg
D.Per	acacgatg	gtaagtagaaga...3580...--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgcagagga...1331...ctccattgcag	gcctcctg
D.Pse	acacgatg	gtaagtagaaga...3546...--gttagttgcagccataactc	AATAAaCACAAATG	caaattgcactcgcagagga...1365...ctccattgcag	gcctcctg
D.Wil	ccacgatg	gtgagttgagaa...3978...--gttagttgcagtcataactc	AATAAaCACAAATG	caaattgcttcagctagcat...933...ttgtttctacag	gattgctt
D.Yak	ccacgatg	gtgagtacagcc...3640...--gttagttgcagccataactc	AATAAgCACAAATG	caaattgcgctgccagagga...1271...ttctaccgcag	gtctgctg
	*****	** ***	* ** *** ***** *	*	** * **

id=16686 gene=FBgn0260235 name=CG42509 segment=chr3L.9252055.9259414.1 type=I5

Figure 128: CS=12.42



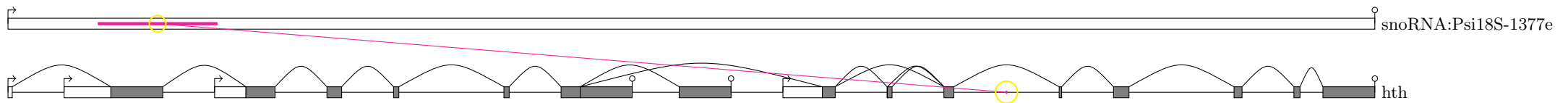
D. Mel	ttccatca	cggttcttggttattttctggacgttgt--tcaagtccagcgatc	GTCAaACAGAACG	----caaagta-----atgcaacgaatca-...48...-----attgcaacagc--a	ccttacat
D. Sim	ttccatca	cggttcttggttattttctggacgttgt--tcaagtccagcgatc	GTCAaACAGAACG	----caaagta-----atgcaacgaatca-...48...-----attgcaacagc--a	ccttacat
D. Sec	tctgtcta	tcgtttttggttattttctggaagttacatccaaagccagcga	TTGTCAaACAGAACGTA	-----cattaatggcagccttatcac...47...-----ctgccacagt--t	ccttacia
D. Ere	ctctatct	cggttcttggttattttctggacgttct--tcaagtccagcgatc	GTCAaACAGAACG	-----cacagca-----aggcaacgaatca-...47...-----gattgcaacatt--	catagtat
D. Ana	gctctata	tcggttcttggttattccctggatgtcttacctaattcagaga	TTGTCAaACAGAACG	AGAG-----catattccaggcaactaatc-...53...-----gccatatcttta	ccttataa
D. Gri	ttttaata	cggttcttggttattttctggaatttagtt-tatcattcagtgat	TTGTCAaACAGAACG	-----cacaacaaactccaagccag-----...426...-----ctggttacatg--c	ccctctcc
D. Per	actatcca	cggttcttggttattcgcctgaatgcccat-cttggcctagtgat	TTGTCAaACAGAACG	-----cacattgaagaccagcgatc-...57...-----cgtgccacaac--a	ccacaac
D. Pse	actatcca	cggttcttggttattcgcctgaatgcccat-cttggcctagtgat	TTGTCAaACAGAACG	-----cacattgaagaccagcgatc-...57...-----cgtgccacaac--a	ccacaac
D. Vir	aaacgcta	cggttcttggttattcgcctgaatctgtaattctcgtttcagcga	TTGTCAaACAGAACG	-----caaagcgaactccaagccag-----...42...taactaccgctcgccacat	-----
D. Wil	gttcagta	tcggttcttggttattcgcctgaactcatttacctagttcagcga	TTGTCAaACAGAACGTAGA	ataaagca----ttactccacgat-...29...-----attactacaaa--t	cccttgcg
		**** ***** ** *	** ** *****	*	** *

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D. Mel	attggcc	gtaagtgcgtctcta	TGTTT	TTGTTGAC	aactccttactggccgcaca--...1260...cccattttgcag	tagttaa	
D. Sim	attggcc	gtaagtgcgtctcta	TGTTT	TTGTTGAC	aactccttactggccgcaca--...1238...cccattttgcag	tagttaa	
D. Sec	attggcc	gtaagtgcgtctc	TATGTTT	TTGTTGACAA	ctccttactggccgcacaaa...1236...cccattttgcag	tagttaa	
D. Ere	ataggcc	gtaagtgcgtctcta	TGTTT	TTGTTGAC	aactccttactggccgcata--...1170...cccattttgcag	tagttaa	
D. Ana	tcggccc	ataagtgcgt	CTCTA	TGTTT	TTGTTGACAA	ctccttactggccccacaca...928...cccattttgcag	tagttaa
D. Gri	attgcct	ataagtgcgtcttta	TGTTT	TTGTTGACAA	ctccttactggacgcacaag...1705...ttcgttttgcag	tagttaa	
D. Per	ggacgacc	ataagtgcgtctcta	TGTTT	TTGTTGACAA	ctccttactagccgcacaag...1884...cccattttgcag	tagttaa	
D. Pse	ggacgacc	ataagtgcgtctcta	TGTTT	TTGTTGACAA	ctccttactagccgcacaag...1399...cccattttgcag	tagttaa	
D. Vir	attgctg	ataagtgcgtctcta	TGTTT	TTGTTGACAA	ctccttactgggtcacacaaa...1355...tccttttggcag	tagttaa	
D. Wil	attggacc	ataagtgcgtc	TCTATGTTT	TTGTTGACAA	ctccttactggctacacaca...1198...cccattttgcag	tagttaa	
	*	*****	*****	*****	* ** *	*****	

id=67325 gene=FBgn0259995 name=CG40169 segment=chr2L.20236129.20237448.1 type=IN

Figure 129: CS=14.8



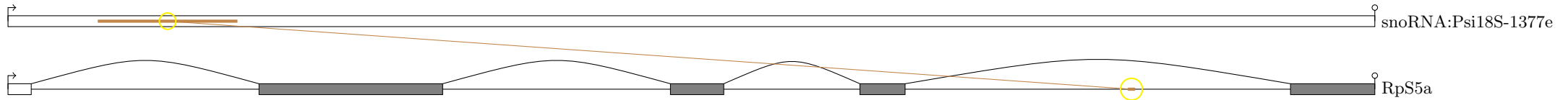
D.Mel	---ttccatca	cCGTTcTTGTGTTA	ttttctggacgtt	gttcaag---	...91...	-----	attgcaacagca	ccttacat
D.Sim	---ttccatca	cCGTTcTTGTGTTA	ttttctggacgtt	gttcaag---	...91...	-----	attgcaacagca	ccttacat
D.Sec	tctgtctat--	CGTTTTTGTGTTA	tttctggaagt--	tacatcca-	...94...	-----	ctgccacagtt	ccttaca
D.Ere	---ctctatct	cCGTTcTTGTGTTA	ttttctggacgtt	tctcaag---	...90...	-----	gattgcaacattc	atagt-at
D.Ana	--gctctatat	CGTTcTTGTGTTA	ttccctggatgtc	taccct---	...103...	-----	gccatatcttta	ccttataa
D.Gri	---ttTTAATA	cCGTTcTTGTGTTA	tttctggaatt	tagttatc---	...470...	-----	ctggttacatgc	ccctctcc
D.Per	--actatccac	CGTTTTTGTGTTA	ttcgcctgaa--	t-gccatcttg..	...101...	-----	cgtgccacaaca	ccacaaac
D.Pse	--actatccac	CGTTTTTGTGTTA	ttcgcctgaa--	t-gccatcttg..	...101...	-----	cgtgccacaaca	ccacaaac
D.Vir	aaacgctac--	CGTTcTTGTGTTA	ttcgcctgaa	tct-gttaatct--	...87...	taactaccgctc	gccacat--	-----
D.Yak	---ttctatta	cCGTTcTTGTGTTA	ttttctggacgtc	ttaaagt---	...90...	-----	attgcaacatag	ataataat
		**** *					*	

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	tagtcctg	gtaagtaatcag...	2680...	actttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1688...	ctctacttgcag	acaatttc	
D.Sim	tagtcctg	gtaagtaatctg...	2688...	actttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1673...	ctctacttgcag	acaacttc	
D.Sec	tagtcctg	gtaagtaatctg...	2636...	actttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1670...	ctctacttgcag	acaacttc	
D.Ere	tagtcctg	gtaagtaatcgg...	2761...	tctttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1639...	ctctacttgcag	acaacttc	
D.Ana	tagtcctg	gtaagtaactccc...	2276...	aacttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttctggccagccagaca	-----	...1584...	ctctctttccag	acaacttc	
D.Gri	tagtcctg	gtaagtaaatcc...	2671...	caacttcagcaaatcaat	TAAcAaACAA	taAACG	ttTGTGG	cgaagccagacagctat	tttt...	2230...	atctctttgcag	acaatttc
D.Per	tagtcctg	gtaagtatttcc...	2723...	aactttgctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1622...	ttctactttcag	acaacttt	
D.Pse	tagtcctg	gtaagtatttcc...	2685...	aactttgctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1598...	ttctactttcag	acaacttt	
D.Vir	tagtcctg	gtaagtatcaga...	2628...	caacttcagcaaatcaat	TAAcAaACAA	taAACG	tttgttggccaagccagaca	-----	...1978...	tttctttgcag	acaatttc	
D.Yak	tagtcctg	gtaagtattgcc...	2805...	actttggctgcgaaatcaat	TAAcAaACAA	taAACG	tttgttggccaggccagaca	-----	...1646...	ttctacttgcag	acaacttc	
	*****	*****			***					***	***	

id=103979 gene=FBgn0001235 name=hth segment=chr3R.6355185.6359632.-1 type=IN VIEW

Figure 130: CS=10.8



D.Mel	ttccat-ca	cCGTTCTTGTGTTATT	-----	ttctg--gacgttgttcaagtc...	89...	-----	attgcaacagc--a	ccttacat
D.Sim	ttccat-ca	cCGTTCTTGTGTTATT	-----	ttctg--gacgttgttcaagtc...	89...	-----	attgcaacagc--a	ccttacat
D.Sec	-tctgtcta	tCGTTTTTGTGTTATT	GCTGG	aagttacatccaaagccagt-----	86...	-----	ctgcaccagc--t	ccttaca
D.Ana	-gctctata	tCGTTCTTGTGTTATT	-----	ccctg--gatgtc--ttaccctaa...	101...	-----	gccatatcttta	ccttata
D.Gri	ttttaa-ta	cCGTTCTTGTGTTATT	GCTGA	atttagttt----atcattcagtg--	462...	-----	ctggttacatg--c	ccctctc
D.Per	-actatcca	cCGTTTTTGTGTTATT	-----	cgctg--aatgccatcttggc...	99...	-----	cgtgccacaac--a	ccacaac
D.Pse	-actatcca	cCGTTTTTGTGTTATT	-----	cgctg--aatgccatcttggc...	99...	-----	cgtgccacaac--a	ccacaac
D.Vir	aaagc-ta	cCGTTCTTGTGTTATT	GCTGA	aatctgtaatctcgttcagc--	79...	taactaccgctcgcacat	-----	-----
D.Yak	ttctat-ta	cCGTTCTTGTGTTATT	-----	ttctg--gacgtc--ttaaagtcc...	88...	-----	attgcaacata--g	ataataat
		*	**** *				* * *	

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	ctgctaag	gtgggtaaattg...449...	-----	gcttgtgacaatatcagtc--	AATGcACACGAGaAACG	taaaagaaca-ttagcaaact...	316...	atgtat-ttccag	ggatcttc
D.Sim	ctgctaag	gtgggtacattg...452...	-----	gcttgtgacaatatcagttc--	AATGcACACGAGaAACG	taaaagaaca-ttaggaaact...	236...	atgtat-ttccag	ggatcttc
D.Sec	ctgctaag	gtgggtacattg...444...	tccctgtgcttggacaata--	TCAGTtcAATGcACACGAGaAACG	taaaagaaca-ttaggaaact...	236...	atgtat-ttccag	ggatcttc	
D.Ana	ctgccaag	gtgaattgatag...445...	-----	cttgaacacactccagttc--	AATGcACACGAGaAACG	taaaagaaca-ctatcttcta...	62...	tgatattttcag	ggatcttc
D.Gri	ccgccaag	gtaagctataat...143...	---	ttgtgcttggcaacattaTCAGCtc	AATGcACACGAGaAACG	tagaagaaca-actcatttaa...	247...	ttacat-ttgcag	ggttcac
D.Per	ccgccaag	gtatgcaccacc...293...	-----	tgtggcattatcccctgtcc	AATGcACACGAGaAACG	tagaagaacagatatatttg...	463...	tgctcttccag	ggttcac
D.Pse	ccgccaag	gtatgcaccacc...293...	-----	tgtggcattatcccctgtcc	AATGcACACGAGaAACG	tagaagaacagatatatttg...	465...	tgctcttccag	ggttcac
D.Vir	ctgctaag	gtgggtaaattg...240...	-ccttgtgcttggcaacac--	TCAGCtcAATGcACACGAGaAACG	tagaagaaca-atcaataagc...	408...	cttctt-ttgcag	ggttcac	
D.Yak	ctgctaag	gtgggtaaattg...464...	-----	ttgtgataaatcaaatctc	AATGcACACGAGaAACG	taaaagaaca-ttagcgaat...	412...	atgtat-ttgcag	ggatcttc
		* * * *		*** *	*****			* * * *	* * * *

id=108905 gene=FBgn0002590 name=Rps5a segment=chrX.17037805.17038650.-1 type=IN

Figure 131: CS=12.42



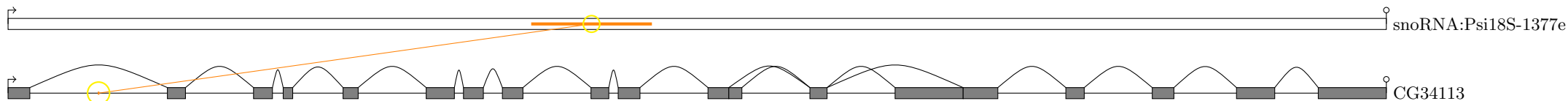
D. Mel	---ttccatca-----	CCGTTcTTGTGTTATTTTC	tggacgttgttcaagtccag-...86...	-----attgcaacagca	ccttacat
D. Sim	---ttccatca-----	CCGTTcTTGTGTTATTTTC	tggacgttgttcaagtccag-...86...	-----attgcaacagca	ccttacat
D. Sec	-----tCTGTCta	TCGTTTtTGTGTTAT	ttcggaagttac---atccaa...93...	-----ctcgccacagtt	ccttaca
D. Ere	---ctctatct-----	CCGTTcTTGTGTTATTTTC	tggacgttcttcaagtccag-...85...	-----gattgcaacattc	atagt-at
D. Ana	--gctctata-----	TCGTTcTTGTGTTAT	tcacctggtg-tctt---acccta...102...	-----gccatattcttta	ccttata
D. Per	--actatcca-----	CCGTTTtTGTGTTAT	tcgctgaa--tgccc---atcttg...100...	-----cgtgccacaaca	ccacaac
D. Pse	--actatcca-----	CCGTTTtTGTGTTAT	tcgctgaa--tgccc---atcttg...100...	-----cgtgccacaaca	ccacaac
D. Vir	aaacgcta-----	CCGTTcTTGTGTTAT	tcgctgaatctgtta---atctc-...86...	taactaccgctcgccacat--	-----
D. Wil	---gttcagta-----	TCGTTcTTGTGTTAT	tcgctgaactcattt---accta-...77...	-----attactacaat	cccttgcg
D. Yak	---ttctatta-----	CCGTTcTTGTGTTATTTTC	tggacg-tcttaaagtccagc...85...	-----attgcaacatag	ataataat
		**** ***** ** *			*

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D. Mel	gtcacaag	gtaggagaactt...731...	ttattgta-aaaatggcaagc	GAAAttGTGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...1114...	ctttcttgag	aatgttgg
D. Sim	gtcacaag	gtaggagaactt...723...	ttattgta-aaaatggcaagc	GAAAttGTGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...1104...	ctttcttgag	aatgttgg
D. Sec	gtcacaag	gtaggagaactt...729...	-----ta-aaaatggcaagc	gaaattGTGAC	-ACAA-AATGG	GGCAGcgtgaaaaatcataaaaagg...	...1098...	ctttcttgag	aatgttgg
D. Ere	gtcacaag	gtaggagaactt...737...	ttattgta-aaaatggcaagc	GAAAttGTGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...990...	ctttcttgag	aatgttgg
D. Ana	gtcacaag	gtaagtgaactt...739...	-----gt-aaaatggcaagc	gaaattGTGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...1081...	tgctttctcag	aatgtggg
D. Per	gccacaag	gtaagcgaactt...757...	-----tgtaaaatagcaggcg-	aattATGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...1534...	ctgtcattccag	aatgtggg
D. Pse	gccacaag	gtaagcgaactt...866...	-----ta-aaaatagcaggcg-	aattATGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...1373...	ctgtcattccag	aatgtggg
D. Vir	gtcacaag	gtgagcgaatc...179...	---gtctgcaaaagtgtcatt---	ttATGAC	ctACAAcAATGG	-----cacagaacaacaacaacaac...	...1885...	attgtattgtag	aatgtggg
D. Wil	gtcacaag	gtaagggaatt...1420...	-----gta-aaaatggc-agc	gaaattGTGAC	-ACAA-AATGG	cgtcagcgtgaaaaatcata-----	...1693...	tatttttgag	aatgtggg
D. Yak	gtcacaag	gtaggagaactt...703...	ttattgta-aaaatggcaggc	GAAAttGTGAC	-ACAA-AATGG	cggcagcgtgaaaaatcata-----	...1066...	tttctttgag	aatgttgg
	* *****	** * *	*** * *	* * * * *	**** *****	* ** * **		** *****	**

id=129160 gene=FBgn0037146 name=CG7470 segment=chr3L.21971475.21973403.1 type=IN

Figure 132: CS=12.6



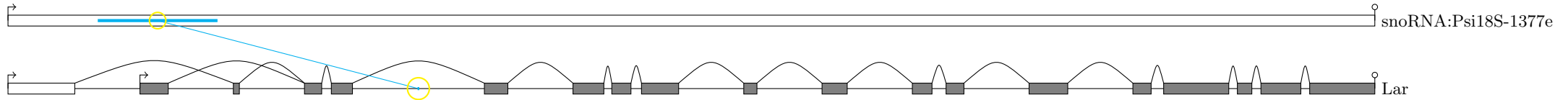
D.Me1	ttccatca	cggttcttggttattttctgga--cgttgttcaagtc	ccagcgatc	GTCAAaCAGAACGC	----aaagta-----atgcaacgaatcac...47...-----attgcaacagca	ccttacat	
D.Sim	ttccatca	cggttcttggttattttctgga--cgttgttcaagtc	AGCGAtcGTCAAaCAGAACGC	----aaagta-----atgcaacgaatcac...47...-----attgcaacagca	ccttacat		
D.Sec	tctgtcta	tcgtttttgggttattttgctggaagt	tacatccaaagcc	AGTGAaTGTCAAaCAGAACGT	----acattaa-----tggcagcttatca...48...-----ctgccacagtt	ccttaca	
D.Ere	ctctatct	cggttcttggttattttctgga--cgttcttcaagtc	AGCGAtcGTCAAaCAGAACGC	----acagca-----aggcaacgaatcac...46...-----gattgcaacattc	atagt-at		
D.Ana	gctctata	tcggttcttggttattccctggatg	tcttaccctaattcag	AGATaGTCAAaCAGAACGC	----aagagcatatt-----ccaggcaac-----	ccttataa	
D.Per	actatcca	cggtttttggttattcgctgaa--tgcccatcttggccta	GTGAaTGTCAAaCAGAACGC	----acattgaagaccaggcatct-----	...56...-----cgtgccacaaca	ccacaaac	
D.Pse	actatcca	cggtttttggttattcgctgaa--tgcccatcttggccta	GTGAaTGTCAAaCAGAACGC	----acattgaagaccaggcatct-----	...56...-----cgtgccacaaca	ccacaaac	
D.Vir	aaacgcta	cggttcttggttattcgctgaatctg	ttaactc	CGTTaAGCGAtTGTCAAaCAGAACGC	----aaagcgaactccaggccagt-----	...41...taactaccgctcgccacat--	-----
D.Wil	gttcagta	tcggttcttggttattcgctgaactc	attacac	tagtcca	CGCAaTGTCAAaCAGAACGC	----agaata-----aagcattactccac...32...-----attactacaat	cccttgcg
D.Yak	ttctatta	cggttcttggttattttctgga--cg-tctttaaagtc	AGCGAtcGTCAAaCAGAACGC	----aaagta-----atgcaacgaatcac...47...-----attgcaacatag	ataataat		
		**** *		*****	**		*

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Me1	tgatccag	gtgagtgattt...4317...gacgtgacact	taaaaggca	GCGTTTTGTTGAC	-----atttactaggaatcgacga-----	...595...cttcccttttag	tttccag
D.Sim	tgatccag	gtgagtgattt...4238...gacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----aggaaatcgacgaaggagtc...667...ctcccctttcag	tttccag	
D.Sec	tgatccag	gtgagtgattt...4236...gacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----aggaaatcgacgaaggagtc...669...ctcccctttcag	tttccag	
D.Ere	tgatccag	gtgagtgattt...4287...gacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----atgaaatcgacgaaggagtc...618...ctcccctttcag	tttccaca	
D.Ana	cgatccag	gtgagtgattt...4552...acgtgacact	taaaaggcac	CGTTTTGTTGACATTT	-----gtagaaatcgacgaaggagtc...357...atTTTTTTTcag	tttccaca	
D.Per	cgatccag	gtgagtgattt...4696...aacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----aagaaatcgacgaaggagtc...210...tttatcttgcag	tctccaca	
D.Pse	cgatccag	gtgagtgattt...4696...aacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----aagaaatcgacgaaggagtc...210...ttttcttgcag	tctccaca	
D.Vir	cgatccag	gtgagtgattt...4733...ggcgtgacagt	taaaaggca	GCGTTTTGTTGAC	TTGTTGATGTTtaagaaatcgacgaaggagtc...168...ctctcttgcag	tttagcact	
D.Wil	tgatccag	gtaagtgcag...4709...aacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----aagaaatcgacgaaggagtc...197...ttctcattgcag	tttctaca	
D.Yak	tgatccag	gtgagtgattt...4229...gacgtgacact	taaaaggca	GCGTTTTGTTGAC	TTGCT-----aggaaatcgacgaaggagtc...676...tccctctttcag	tttcaaca	
	*****	** *		*****	*	*****	** ** *

id=5784 gene=FBgn0083949 name=CG34113 segment=chr3R.1729571.1765085.-1 type=IN VIEW

Figure 133: CS=12.6



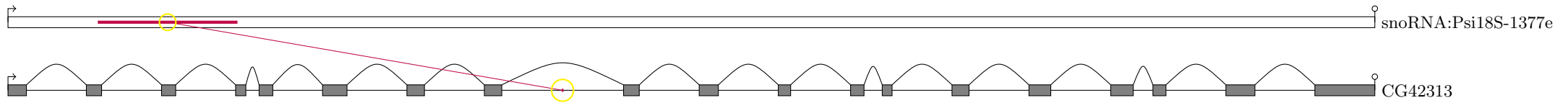
D.Mel	ttccatca---	CCGTTcTTGTGTTA ttttctggacgttgttcaag---...91...-----attgcaacagca	ccttacat
D.Sim	ttccatca---	CCGTTcTTGTGTTA ttttctggacgttgttcaag---...91...-----attgcaacagca	ccttacat
D.Sec	tctg TCTA ---	TCGTTcTTGTGTTA tttgctggaagt--tacatcca-...94...-----ctgccacagtt	ccttaca
D.Ere	c-- TCTAT ct	CCGTTcTTGTGTTA ttttctggacgttcttcaag---...90...-----gattgcaacattc	atagt-at
D.Ana	gc-- TCTATA	TCGTTcTTGTGTTA ttccctggatgcttaccct---...103...-----gccatatctta	cctataa
D.Gri	ttttaata---	CCGTTcTTGTGTTA tttgctgaatttagttatc---...470...-----ctggttacatgc	ccctctcc
D.Per	actatcca---	CCGTTcTTGTGTTA ttcgctgaa--t-gccatctg...101...-----cgtgccacaaca	ccacaaac
D.Vir	---aaacg CTA	CCGTTcTTGTGTTA ttcgctgaatct-gttaatct--...87...taactaccgctcgccacat--	-----
D.Yak	t-- TCTAT ta	CCGTTcTTGTGTTA ttttctggacgttcttaaagt---...90...-----attgcaacatag	ataataat
		**** ***** * * *	*

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	atataag	gtaagtgcctg...4564...agtgcg-ggaatcccattggt TGACTtACAAAATGG cgtagaagcagccaacaaa-----...346...tcctcgttcag	gcgataaa
D.Sim	ctatgaag	gtaagtgcctg...4587...agtgcg-ggaatcccattggt TGACTtACAAAATGG cgtagaagcagccaacaaa-----...323...tcctcgttcag	gcgataaa
D.Sec	ctatgaag	gtaagtgcctg...4575...agtgcg-ggaatcccattggt TGACTtACAAAATGG cGTAGAaagcagccaacaaagcaac--...329...tcctcgttcag	gcgataaa
D.Ere	ctatgaag	gtaagtgcctg...4587...agtgcg-ggaatcccattggt TGACTtACAAAATGG cGTAGAaagc-gccaacaaagcaact--...317...tcctcgttcag	gcgataaa
D.Ana	ctatgaag	gtaagtgcctg...4653...tgtgtg-ggaacgccattggt TGACTtACAAAATGG cGTAGAAaat-gccaacaaagcgaca-...251...tctcattgcag	gcgataaa
D.Gri	ctatgaag	gtaagtgcctg...4593...gtttggtgccaccattggt TGACTtACAAAATGG cgtagaagc-ggcaaca-----aac--...317...tttgcgttcag	gcgataaa
D.Per	ctatgaag	gtaagtgcctg...4649...tgtgtg-tggaagccattggt TGACTtACAAAATGG cgtagaagc-gccaacaaag-----...261...gttttttcag	gcgataaa
D.Vir	ctatgaag	gtaagtgcctg...4586...gtttgctgcacgccattggt TGACTtACAAAATGG cGTAGaaagc-ggcaacaaaggaac--...319...ttcccgttcag	gcgataaa
D.Yak	ctatgaag	gtaagtgcctg...4589...agagcg-ggaatcccattggt TGACTtACAAAATGG cGTAGAAagc-gccaacaaagcaactg...314...tcctcgttcag	gcgataaa
	*****	***** * * * * ***** * ***** * ***** * ***** * *****	** ** *

id=108542 gene=FBgn0000464 name=Lar segment=chr2L.19644636.19691017.1 type=IN

Figure 134: CS=12.42



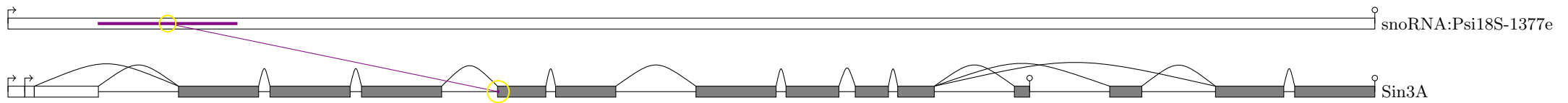
D.Mel	---ttccatca	CCGTTcTTGTGTTATT	ttctggacgttgttcaagtc---	...89...	-----attgcaacagca	ccttacat
D.Sim	---ttccatca	CCGTTcTTGTGTTATT	ttctggacgttgttcaagtc---	...89...	-----attgcaacagca	ccttacat
D.Sec	tctgtcta---	TCGTTTTGTGTTATT	tgtctggaag--ttacatccaaa...	...92...	-----ctgccacagtt	ccttaca
D.Ere	---ctctatct	CCGTTcTTGTGTTATT	ttctggacgttcttcaagtc---	...88...	-----gattgcaacattc	atagt-at
D.Ana	--gctctata-	TCGTTcTTGTGTTATT	ccctggatg-tcttaccctaa--	...101...	-----gccatatcttta	ccttataa
D.Gri	---ttttaata	CCGTTcTTGTGTTATT	tgctgaattagtttatcat---	...468...	-----ctggttacatgc	ccctctcc
D.Per	--actatcca-	CCGTTTTGTGTTATT	cgctgaa--t-gcccatcttggc...	...99...	-----cgtgccacaaca	ccacaac
D.Pse	--actatcca-	CCGTTTTGTGTTATT	cgctgaa--t-gcccatcttggc...	...99...	-----cgtgccacaaca	ccacaac
D.Vir	aaacgcta---	CCGTTcTTGTGTTATT	cgctgaatct-gttaatctcg---	...85...	taactaccgctcgccacat--	-----
D.Wil	--gttcagta	-CGTTcTTGTGTTATT	cgctgaactc-attacctag---	...76...	-----attactacaaat	cccttgcg
D.Yak	---ttctatta	CCGTTcTTGTGTTATT	ttctggacg-tcttaaagtcc---	...88...	-----attgcaacatag	ataataat
		**** *				*

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834_-1 type=EN

D.Mel	tgctgttt	gtaagtattaca...	3907...	-tccgtggtgg----	aacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	1001...	tcctctttgcag	atcctccc
D.Sim	tgctgttt	gtaagtattaca...	3628...	-tccgtggtgg----	aacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	1280...	tcctctttgcag	atcctccc
D.Sec	tgctgttt	gtaagtattaca...	3871...	-tccgtggtgg----	aacggtaaat	GATAAtCACAAAAATGG	-cctgcaacatgtgtg	cgaa...	1037...	tcctctttgcag	atcctccc
D.Ere	tgctgttt	gtaagtattaca...	3956...	-tccgtggtgg----	aacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	952...	tcctctttgcag	atcctccc
D.Ana	tgctgttt	gtaagtattaca...	3863...	--agtggtgagc---	aacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	1045...	tcctctttgcag	atcctccc
D.Gri	tgctgttt	gtaagtattaca...	3691...	---tgggtagc---	taacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	996...	aattctttgcag	atccccca
D.Per	tgctgttt	gtaagtattaca...	3611...	----aacgcagccgtaac-	gtaaat	GATAAtCACAAAAATGG	-cctgcaacatgtgtg	cgaa...	1297...	gtctctttgcag	atccacct
D.Pse	tgctgttt	gtaagtattaca...	3466...	----cggcagccgtaacgtaac-	gtaaat	GATAAtCACAAAAATGG	-cctgcaacatgtgtg	cgaa...	1442...	gtctctttgcag	atccacct
D.Vir	tgctgttt	gtaagtattaca...	3702...	---ggtggcagc---	taacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	1206...	gaatcattgcag	atccccca
D.Wil	tgctgttt	gtaagtattaca...	3510...	ctgtgtggtgta----	aacggtaaat	GATAAtCACAGaAATGG	-cctgcaacatgtgtg	cg--...	1399...	tcctctttgcag	atccacct
D.Yak	tgctgttt	gtaagtattaca...	3946...	-tccgtggtgg----	aacggtaaat	GATAAtCACAAaAATGG	-cctgcaacatgtgtg	cgaa...	962...	tcctctttgcag	atcctccc
	*****	*****		*	***	*****	*****	**	*****	**	*****

id=78240 gene=FBgn0259213 name=CG42313 segment=chr2L.14923080.14932513_-1 type=IN

Figure 135: CS=16.28



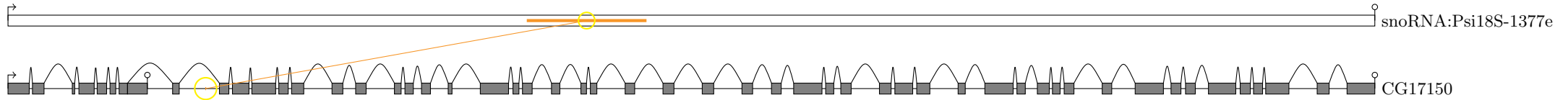
D.Mel	---ttccatca-	CGGTTCTGTGtTATTTT	ctggacgttgttcaagtcca	...87...	-----attgcaacagca	ccttacat
D.Sim	---ttccatca-	CGGTTCTGTGtTATTTT	ctggacgttgttcaagtcca	...87...	-----attgcaacagca	ccttacat
D.Sec	---tctgtcta	TCGTTTtTGTGtTATTTT	gctggaag---ttacatccaag	...91...	-----ctgccacagtt	ccttacia
D.Ere	---ctcta-	TCTCGGTTCTGTGtTATTTT	ctggacgttcttcaagtcca	...86...	-----gattgcaacattc	atagt-at
D.Ana	---gctctata	TCGTTCTGTGtTATTC	ctggatg-tctt--accctaatt	...99...	-----gccatacttta	ccttataa
D.Gri	---ttttaata	CGGTTCTGTGtTATTT	gctgaatt-tagttatcatt	...467...	-----ctggttacatgc	ccctctcc
D.Per	---actatcca	CGGTTTtTGTGtTATTC	gctgaa---t-gcccatcttgcc	...98...	-----cgtgccacaaca	ccacaaac
D.Pse	---actatcca	CGGTTTtTGTGtTATTC	gctgaa---t-gcccatcttgcc	...98...	-----cgtgccacaaca	ccacaaac
D.Vir	aaacgcta---	CGGTTCTGTGtTATTC	gctgaatc-t-gttaatctcgt	...84...	...taactaccgctcgccacat--	-----
D.Yak	---ttctat-ta	CGGTTCTGTGtTATTTT	ctggacg-tcttaagtccag	...86...	-----attgcaacatag	ataataat
		**** *				*

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	atttacag	gtaagaaatatt...304...	tgcgcacgctctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Sim	atttacg	gtaagaaatatt...300...	tgcgcacgctctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Sec	atttacg	gtaagaaatatt...301...	-gcgcacgctctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Ere	atttacag	gtaagatatatt...281...	tgcgcacgctctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Ana	atctacag	gtgagacttgaa...255...	tgcgcacactctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Gri	atctacag	gtgagttttacg...451...	-aaacgctctctaacgaaag	GGAATAttCACAG	AACGGagg
D.Per	atttacag	gtaagaaaggac...246...	cacgtgt-ttctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Pse	atttacag	gtaagaaaggac...229...	cacgtgt-ttctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Vir	atctacag	gtgagtgtcgga...181...	-acaacgctctaacaacaaa	GGAATAttCACAG	AACGGagg
D.Yak	atttacag	gtaagatgtatt...300...	tgcgcacgctctaacaacaaa	GGAATAttCACAG	AACGGagg
	** ** *	** ** *		*****	*****

id=130893 gene=FBgn0022764 name=Sin3A segment=chr2R.8469445.8469793.-1 type=IN

Figure 136: CS=13.8



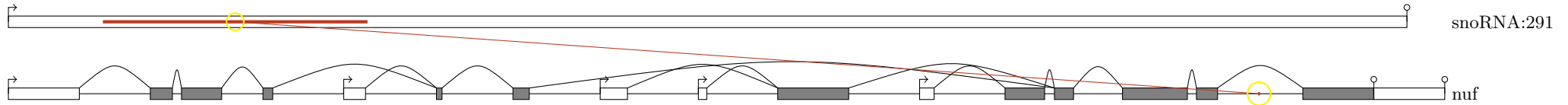
D.Mel	ttccatca	ccgttctt	gtgttatt	tttctgg	acgttgtt	--caagtcc	agcgat	CGTCAAA	CAgAACGC	-----	aaagtaa-	tgcaacg	aatcac-	...47...	-----	attgcaac	agc--a	ccttcat
D.Sim	ttccatca	ccgttctt	gtgttatt	tttctgg	acgttgtt	--caagtcc	agcgat	CGTCAAA	CAgAACGC	-----	aaagtaa-	tgcaacg	aatcac-	...47...	-----	attgcaac	agc--a	ccttcat
D.Sec	tcctgtca	tcgtttt	gtgttatt	ttgctg	gaagttac	atccaaag	ccagtgat	TGTCAAA	CAgAACGT	-----	acattaat	ggcagct	tatca--	...48...	-----	ctcgccac	agt--t	ccttaca
D.Ere	ctctatct	ccgttctt	gtgttatt	tttctgg	acgttctt	--caagtcc	agcgat	CGTCAAA	CAgAACGC	-----	acagcaa-	ggcaacg	aatcac-	...46...	-----	gattgcaac	att---	catagta
D.Ana	gctctata	tcgttctt	gtgttatt	ccctgg	atgtctta	ccctaatt	cagagat	TGTCAAA	CAgAACG	aaagagca	tatt-----	ccaggcaac	...	...58...	-----	gccatata	cttta	ccttata
D.Gri	ttttaata	ccgttctt	gtgttatt	tgctga	atttagtt	-tatcattc	AGTGat	TGTCAAA	CAgAACGC	-----	acaacaa-	actccaag	ccagt...	...425...	-----	ctggttac	atg--c	ccctctc
D.Pse	actatcca	ccgtttt	gtgttatt	cgctga	atgcccat	-cttggc	ctagtgt	TGTCAAA	CAgAACGC	-----	acattga-	agaccagg	catct...	...56...	-----	cgtcacac	aac--a	ccacaac
D.Vir	aaacgcta	ccgttctt	gtgttatt	cgctga	atctgtta	atctctgttc	AGCGat	TGTCAAA	CAgAACGC	-----	aaagcga-	actccagg	ccagt...	...41...	taactacc	cgctcg	ccacat	-----
D.Wil	gttcagta	tcgttctt	gtgttatt	cgctga	actcattt	acvtagtt	cagcgat	TGTCAAA	CAgAACGT	-----	agaataa-	agcattact	ccac...	...32...	-----	attactaca	aaa--t	cccttgcg
		****	*****	***	*		**	***	*****		*					*	*	

id=97880 gene=FBgn0083047 name=snoRNA:Psi18S-1377e segment=chr3R.26032698.26032834.-1 type=EN

D.Mel	aagaaaag	gtgagta	actga...	420...	gatgaca	agtgac	gagggcgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttg	-----	...210...	aactca-	ttacag	agagattg
D.Sim	aggaaaag	gtgagta	actga...	392...	gatgaca	agtgac	ggggcgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttg	-----	...210...	aactca-	ttacag	aaagattg
D.Sec	aggaaaag	gtgagta	actga...	385...	gatgaca	agtgac	ggggcgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttg	-----	...213...	aactca-	ttacag	aaagattg
D.Ere	aagaaaag	gtgagta	actgg...	419...	gatgaca	acagac	ggggcgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttt	-----	...210...	aactca-	ttacag	aaagattg
D.Ana	gggaggag	gtaagt	ctcaat...	388...	-atgaca	agtaac	ggggcgc	TGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttg	-----	...213...	aactca-	ttacag	aaattttg
D.Gri	aggaaag	gtaagtt	catgt...	712...	atactag	aggagc	aaaatgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttg	-----	...177...	aactcg-	ttacag	aaacattg
D.Pse	acgaagag	gtaagt	ccatgt...	223...	gatgaca	agtgac	ggggcgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aagtttg	-----	...322...	actcatt	acag	caacattg
D.Vir	aggaagag	gtaagtt	catgt...	230...	gggggag	gttaata	aaacgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttg	-----	...467...	aactcg-	ttacag	aaatattg
D.Wil	aggaacag	gtgagt	gtcgtc...	138...	ggaagg	ctgtgaa	aggatgc	GTGTT	ga TGTT	TGACG	tgagcgc	caaaca	aactttt	-----	...172...	ttttgat	tatag	gtacattg
	**	**	**	***				*****		*	*	**	**		*	***	**	*

id=26506 gene=FBgn0035581 name=CG17150 segment=chr3L.4865182.4865892.1 type=IN

Figure 137: CS=14.04



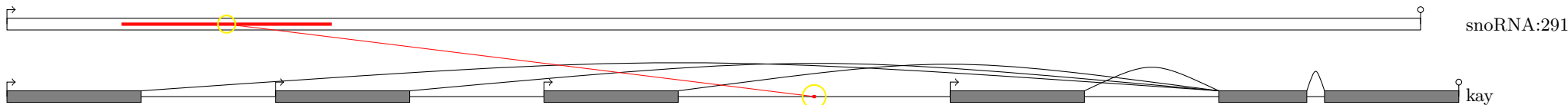
D. Mel	gtgGGTGT	GgcGTTG	TCCAT	ccgcacatgattcttctccctggaggagc	gagtga-ttacctgcaaggccaactgaaggca	cagcatcc--
D. Sim	gtgGGTGT	GgcGTTG	TCCAT	ccgcacatgattcttctccc--ggagacgagtga-t--actgcagg--caactgaaggcg	catccta--	
D. Sec	gtgGGTGT	GgcGTTG	TCCAT	ccgcacatgattcttctccctggaggagc	gagtga-ttacctgcaaggccaactgaaggca	cagcatcc--
D. Ere	gcgGATGT	GgcGTTG	TCCAT	tcgcacatgattcttctcccggaggagttagtga-ttacctgcaaggccaactgaaggca	cagcatcc--	
D. Ana	gcgTATGT	GgcGTTG	TCCATA	ccgcacatga--ctccccattggggggcaaatga-ttacctgcaaggccaactgagtca	cagacca--	
D. Gri	gcgGATGT	GgcGTTG	TCCAT	tcgcaaatgatggcctcc-----acatga-ttctctgcaaggccaactgataaag	caagccagag	
D. Moj	gcgGATGT	GgcGTTG	TCCAT	tcgtaaatgatggcttc-----aggtgattttctgcaaggccaactgattatg	caaaacaatt	
D. Vir	gcgGATGT	GgcGTTG	TCCAT	tcgcaaatgatggtttc-----acgtga-ttctctgcaaggccaactgataaat	caaaccaa--	
D. Wil	gcgGATGT	GgcGTTG	TCCAT	tcgatatgatg--ttcc-----aaatga-ttttctgcaaggccaactgatgacg	caaacgca--	
D. Yak	gcgGATGT	GgcGTTG	TCCAT	ccgcacatgataacttctcctcggaggagc	gagtga-ttacctgcaaggccaactgaaggca	cagcatcc--
	* * *	*****	* * *	*	*** * ***** *	**

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290_24638363.1 type=EN

D. Mel	aagcccag	gtctgtatttga...245...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...275...	tatgttttgcag	ctacaaca
D. Sim	aagcccag	gtgtgtatttga...243...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...267...	tatgttttgcag	cttcaaca
D. Sec	aagcccag	gtgtgtatttga...243...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...267...	tatgttttgcag	cttcaaca
D. Ere	aagcccag	gtgtgtacttcg...240...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...272...	tatgttttgcag	cttcaaca
D. Ana	aagctcag	gtgggtggctcg...245...	tttattgtattacaggattct	TGTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...299...	tatattttacag	ctgcaaca
D. Gri	aggctcag	gtgtgtgttgca...221...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...334...	acaaatttacag	ctgcaaca
D. Moj	aagctcag	gtttgtaggccg...227...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...327...	aatcaattccag	ctgcaaca
D. Vir	aagctcag	gtttgtaatgtc...221...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...385...	atcaatttacag	ctgcaaca
D. Wil	aagctcag	gtgtgtagaact...308...	-atattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...323...	tgcattttacag	ctccagca
D. Yak	aagcccag	gtgtgtatttga...248...	-ttattgtattacaggattct	GTGGAtt	CAGCCACATT	agcatccttaagtcaggtaa...272...	tatgctttgcag	ctacaaca
	* * *	** *		*****		** ***	** ** *	** ** *

id=43701 gene=FBgn0013718 name=nuf segment=chr3L.14224426_14225026.1 type=IN

Figure 138: CS=10.8



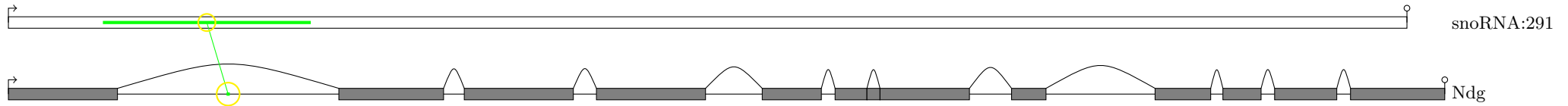
D. Mel	gtgggtGT	GGCGTTGTC	catccgcacatgattcttctccctggaggagcgagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Sim	gtgggtGT	GGCGTTGTC	catccgcacatgattcttctccc---ggagacgagtga-t--actgcagg---caactgaaggcg	catcctta-----
D. Sec	gtgggtGT	GGCGTTGTC	catccgcacatgattcttctccctggaggagcgagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ere	gcggatGT	GGCGTTGTC	cattcgcacatgattcttctcccccggaggagttagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ana	gcgatGT	GGCGTTGTC	catacgcacatga--ctccccattggggggcaaatga-ttacctgcaaggccaactgagttca	cagacca-----
D. Moj	gcggatGT	GGCGTTGTC	cattcgtaaatgatggcttc-----caggtgattttctgcaaggccaactgattatg	caa---aacaatt
D. Per	gcggatGT	GGCGTTGTCGGTT	cgcatatgatgccccac-----agcacatga-ttttctgcaaggccaactgatgtag	caatcgaagccatc
D. Pse	gcggatGT	GGCGTTGTCGGTT	cgcatatgatgccccac-----agcacatga-ttttctgcaaggccaactgatgtag	caatcgaagccatc
D. Wil	gcggatGT	GGCGTTGTC	cattcgtatatgatgttc-----caaatga-ttttctgcaaggccaactgatgagc	caaacgca-----
D. Yak	gcggatGT	GGCGTTGTC	catccgcacatgatacttctctcggaggagcgagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
	* * *	*****	*** * ***** * *****	**

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290.24638363.1 type=EN

D. Mel	caaaagtg	gtaagaaatggg...3750...--gatgcgattcagtcgcaaacGAACAACGaaCCATcgaagtttagaaaatctct...1161...agcgaacaaatg	atgaaaa
D. Sim	caaaagtg	gtaagaaacgag...3778...--gatgcgattcagtcgcaaacGAACAACGaaCCATcgaagtttagaaaatctct...1133...agcgaacaaatg	atgaaaa
D. Sec	caaaagtg	gtaagaaacgag...3770...--gatgcgattcagtcgcaaacGAACAACGaaCCATcgaagtttagaaaatctct...1141...agcgaacaaatg	atgaaaa
D. Ere	cgaaagtg	gtaagaaatgtg...3726...--gttgcgattcagtcgcaaacGAACAACGaaCCATcgaagtttagaaaatctct...1185...agcaaccaaatg	atgaaaa
D. Ana	caaaagtg	gtaagaatctac...3562...--cggcagattcagtcgcaaacGAACAACGaaCCATcgaagtttagaaaatctct...1349...acgaacaaatg	atgaaaa
D. Moj	caaatcg	gtaagcaaatat...3578...--tctttcgctcagtcgcaaacGAACAACGaaCCATcgaagtttagaattctttt...1333...acgcgctcatg	atgaaaa
D. Per	caaaagtg	gtaagatctctg...3605...tcgccccggaatcagtcgcaAACGAACAACGaaCCATcgaagtttagaaaaaatatt...1303...aacgaacaaatg	atgaaaa
D. Pse	caaaagtg	gtaagatctctg...3600...tcgccccggaatcagtcgcaAACGAACAACGaaCCATcgaagtttagaaaaaatatt...1308...aacgaacaaatg	atgaaaa
D. Wil	ctaaagtg	gtaagccaaaat...3541...--aattttgctcagtcgcaaacGAACAACGaaCCATcgaagtttagagaatataaa...1370...taaatacaaatg	atgaaaa
D. Yak	caaaagtg	gtaagaaatgtg...3720...--gatgcgattcagtcgcaaacGAACAACGaaCCATcgaagtttagaaaatctct...1191...agcgaacaaatg	atgaaaa
	* * *	*****	*****

id=89684 gene=FBgn0001297 name=kay segment=chr3R.25608870.25615874.1 type=IN VIEW

Figure 139: CS=11.8



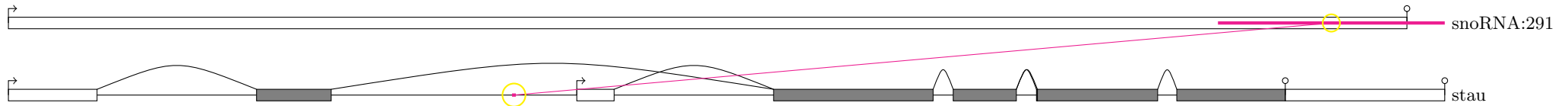
D. Mel	gtgggTGT	GGCGTTGTT	ccatccgcacatgattcttctccctggaggagcgagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Sim	gtgggTGT	GGCGTTGTT	ccatccgcacatgattcttctccc---ggagacgagtga-t--actgcagg---caactgaaggcg	catcctta-----
D. Sec	gtgggTGT	GGCGTTGTT	ccatccgcacatgattcttctccctggaggagcgagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ere	gcggaTGT	GGCGTTGTT	ccattcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ana	gcgtaTGT	GGCGTTGTT	ccatacgcacatga--ctccccattggggggcaaatga-ttacctgcaaggccaactgagttca	cagacca-----
D. Gri	gcggaTGT	GGCGTTGTT	ccattcgcacatgatggcctc-----cacatga-ttctctgcaaggccaactgataaag	caagccagag----
D. Moj	gcggaTGT	GGCGTTGTT	ccattcgtaaatgatggcttc-----caggtgattttctgcaaggccaactgattatg	caa----aacaatt
D. Per	gcggaTGT	GGCGTTGTT	ccgttcgcatatgatgccccac-----agcacatga-ttttctgcaaggccaactgatgtag	caatcgaagccatc
D. Pse	gcggaTGT	GGCGTTGTT	ccgttcgcatatgatgccccac-----agcacatga-ttttctgcaaggccaactgatgtag	caatcgaagccatc
D. Vir	gcggaTGT	GGCGTTGTT	ccattcgcacatgatggtttc-----cacgtga-ttctctgcaaggccaactgataaat	caaaccaa-----
D. Wil	gcggaTGT	GGCGTTGTT	ccattcgtatgatggttc-----caaatga-ttttctgcaaggccaactgatgagc	caaacgca-----
D. Yak	gcggaTGT	GGCGTTGTT	ccatccgcacatgatacttctcctcggaggagcgagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
	* * **	*****	*** * ***** * *****	**

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290.24638363.1 type=EN

D. Mel	agctctat	gtgagtaccct...575...ttatgtgtctgacgtagagaAATAgcACGCggCACAgaatcagaacggccaaaacg-...1241...tgtattctctag	atcaacac
D. Sim	agctctat	gtgagtaccct...570...ttatgtgtctgacgtagagaAATAgcACGCggCACAgaatcagaacggccaaaacg-...1256...tgaattcccag	atcaacac
D. Sec	agctctat	gtgagtaccct...570...ttatgtgtctgacgtagagaAATAgcACGCggCACAgaatcagaacggccaaaacg-...1226...tgaattcctcag	atcaacac
D. Ere	agctttat	gtgagtaccct...581...ttatgtgtctgacgtagaaaAATAgcACGCggCACAgaatcagaacgacaaaacg-...1129...ctgagtacctga	accagccc
D. Ana	agatata	gtgagtacaat...568...ttatgtgtctgacgtagagaAATAgcACGCggCACAgaatcgcgctacagatcgga-...1474...ttcctttacag	ataaacac
D. Gri	acatctat	gtaagtctgtaa...1588...ttatgtgtctgacgtgaaaAATAgcACGCggCACAgaatgtgtggcattaaaatg-...1798...tctcgattgtag	atcaacac
D. Moj	agatctat	gtgagtataacg...1337...ttatgtgtctgacgtgaaaAATAgcACGCggCACAgaatgtgtgtgtgtatgt-...1376...tctcattgcag	atcaacac
D. Per	agctctat	gtgagttagtg...662...ttatgtgtctgacgtgaaaAATAgcACGCggCACAgaatcggaaacggcctttt-...1330...tcctttacacag	atcaatac
D. Pse	agctctat	gtgagttagtg...662...ttatgtgtctgacgtgaaaAATAgcACGCggCACAgaatcggaaacggcctttt-...1296...tcctttacacag	atcaatac
D. Vir	agatcttt	gtgagtataaga...1149...ttatgtgtctgacgtgaaaAATAgcACGCggCACAgaatgtgtggcattattatg-...1629...cctttctgcag	atcaacac
D. Wil	agctttat	gtgagtaccct...479...ttatgtgtctgacgtgaaaAATAgcACGCggCACAgaatggaacatataaatacat...2136...ctgtttctgcag	atcaatac
D. Yak	agctccat	gtgagtaccct...561...ttatgtgtctgacgtagagaAATAgcACGCggCACAgaatcggaaacggcctaaaaca-...1269...taaattcccag	atcaacac
	* * *	*****	* * *

id=52074 gene=FBgn0026403 name=Ndg segment=chr2R.6202010.6203905.1 type=IN

Figure 140: CS=12.96



```

D.Me1  gtgggtgt  ggcggtgttccatccgcacatgattcttctccctggaggagcgagtga-ttacctGCAAGGGCCAaCTGA---AGgca cagcatcc-----
D.Sec  gtgggtgt  ggcggtgttccatccgcacatgattcttctccctggaggagcgagtga-ttacctGCAAGGGCCAaCTGA---AGgca cagcatcc-----
D.Ere  gcggatgt  ggcggtgttccattcgcacatgattcttctcccccggaggagttagtga-ttacctGCAAGGGCCAaCTGA---AGgca cagcatcc-----
D.Ana  gcgatgt   ggcggtgttccatccgcacatga--ctccccattggggggcaaatga-ttacctGCAAGGGCCAaCTGA---G-tt  cacagacca-----
D.Gri  gcggatgt  ggcggtgttccattcgcacatgatggcctccac-----atga-ttctctGCAAGGGCCAaCTGA-----ta aagcaagccagag---
D.Moj  gcggatgt  ggcggtgttccattcgtaaatgatggcttcag-----gtgattttctGCAAGGGCCAaCTGATTATG-ca aaacaatt-----
D.Per  gcggatgt  ggcggtgttccggttcgcatatgatgccccac-----agcacatga-ttttctGCAAGGGCCAaCTGA-----tg tagcaatcgaagccatc
D.Pse  gcggatgt  ggcggtgttccggttcgcatatgatgccccac-----agcacatga-ttttctGCAAGGGCCAaCTGA-----tg tagcaatcgaagccatc
D.Vir  gcggatgt  ggcggtgttccattcgcacatgatggtttccac-----gtga-ttctctGCAAGGGCCAaCTGA-----ta aatcaaacc---
D.Yak  gcggatgt  ggcggtgttccatccgcacatgatacttctcctcggaggagcgagtga-ttacctGCAAGGGCCAaCTGA---AGgca cagcatcc-----
* * *** ***** * * * **** * ** ** *****

```

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290_24638363_1 type=EN

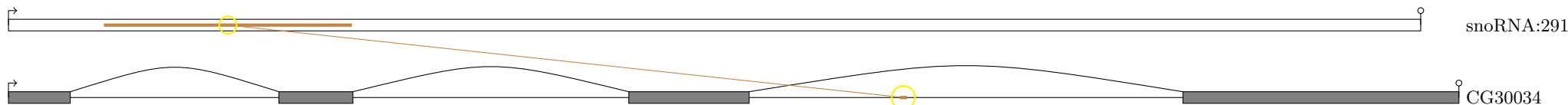
```

D.Me1  cacgcacg  gtaagccatcta...587...-----tctcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgcgctcagcatgac...164...agttgcgttttg cctgccgg
D.Sec  caccacg  gtaagcaattta...587...-----tctcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgcgctcagcatgac...164...agttgcgttttg cctgccgg
D.Ere  cacgcacg  gtaagatataca...593...-----tctcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgcgctcagcatgac...164...agttgcgttttg cctgccgg
D.Ana  catgcacg  gtaagagtcctg...348...-----ctcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgcgctcagcatgac...163...agttgcgttttg cctgccac
D.Gri  catggacg  gtgagcgtcaa...161...-----tcaactcataaattataaTTCAGTGGCtCTTTGTtcttttagcgcacagcatgac...249...agtcgcctttgg cctcacac
D.Moj  catggacg  gtaaggaatgct...139...cattttctcaactcataaTATAAttTCAGTGGCtCTTTGTtcttttagcgcctcagcatgac...199...agttgctctgca gtcgctgt
D.Per  catccacg  gtaaacattctg...182...-----tcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgtgctcagcatgac...180...agttgcgttttg cctggcac
D.Pse  catccacg  gtaaacattctg...182...-----tcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgtgctcagcatgac...180...agttgcgttttg cctggcac
D.Vir  cacggacg  gtaagcgatega...156...-----tcaactcataaattataaTTCAGTGGCtCTTTGTtcttttagcgcctcagcatgac...266...agtcgcgtttcg cctcgctt
D.Yak  catgcacg  gtaagaatcga...577...-----tctcaactcataaattataaTTCAGTGGCtCTTTGTtctttcgcgctcagcatgac...164...agttgcgttttg cctgccgg
** *** ** * ***** * * * ***** ** ** *

```

id=31115 gene=FBgn0003520 name=stau segment=chr2R.14011367_14012198_-1 type=IN

Figure 142: CS=11.8



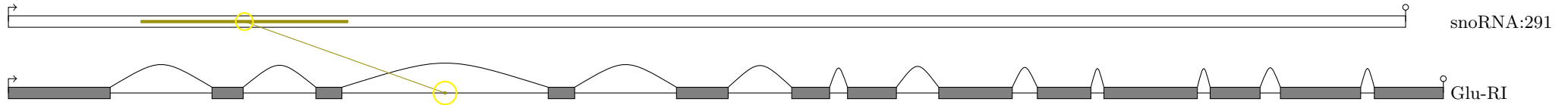
D. Mel	gtgggTGT	GGCGTgTTC	-----	atc-cgcacatgattcttctccctggaggagc	gagtgattac	ctgcaagg	ccaactga	-----	aggca	cagcatcc
D. Sim	gtgggTGT	GGCGTgTTC	-----	atc-cgcacatgattcttctccc	---ggagac	gagtgat	actgcaagg	---caactga	---aggcg	catcctta
D. Sec	gtgggTGT	GGCGTgTTC	-----	atc-cgcacatgattcttctccctggaggagc	gagtgattac	ctgcaagg	ccaactga	-----	aggca	cagcatcc
D. Ere	gcggaTGT	GGCGTgTTC	-----	att-cgcacatgattcttctcccggaggagt	tagtgattac	ctgcaagg	ccaactga	-----	aggca	cagcatcc
D. Ana	gcgtaTGT	GGCGTgTTC	-----	ata-cgcacatga	-ctccccatt	gggggg	caaatgattac	ctgcaagg	ccaactga	---gttca
D. Gri	gcggaTGT	GGCGTgTTC	-----	att-cgcaaatgatggcctc	-----	catatgatt	ctctgcaagg	ccaactgata	---aagca	agccagag
D. Per	gcggaTGT	GGCGTTGTCCGTTCCG	aTATG	atgcccaca	-----	gcatatgatt	tttctgcaagg	ccaactgat	gtagcaat	cg aagccatc
D. Pse	gcggaTGT	GGCGTTGTCCGTTCCG	aTATGATGC	cccaca	-----	gcatatgatt	tttctgcaagg	ccaactgat	gtagcaat	cg aagccatc
D. Vir	gcggaTGT	GGCGTgTTC	-----	att-cgcaaatgatggttc	-----	cacgtgatt	ctctgcaagg	ccaactgata	---aatca	aaccaa--
D. Yak	gcggaTGT	GGCGTgTTC	-----	atc-cgcacatgatacttctcctcggaggagc	gagtgattac	ctgcaagg	ccaactga	-----	aggca	cagcatcc
	* * * *	*****		** * * *		****	*****	*	*****	*

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290_24638363.1 type=EN

D. Mel	acgctgg	gtggttggcgg	...233...	ccctcctctgcgccgaaac	-----	GGAAatGCGCCACA	agcagcggaggagcttttt	-----	...1093...	gttcttctgtag	atattgtg--
D. Sim	aggagtgg	gtggttggcgg	...223...	ccctcctctgcgccgaaac	-----	GGAAatGCGCCACA	agcagc---ggagctttttgccc	-----	...1087...	gttcttctgtag	atattgtg--
D. Sec	agactgg	gtggttggcga	...236...	ccctcctctgcgccgaaac	-----	GGAAatGCGCCACA	agcagc---ggagctttttgccc	-----	...1074...	gttcttctgtag	atattgtg--
D. Ere	gtggttgg	ggggttggagg	...232...	cccgcttggccgccgaaac	-----	GGAAatGCGCCACA	agcagc---ggagctttttgccc	-----	...1067...	attcttctgtag	atattgtg--
D. Ana	agaggggg	gtatccaggggt	...204...	aggataccccggacgaaac	-----	GGAAatGCGCCACA	aacagtgagcagca	-----	gggcg...	ctgcactgtag	actgcaga--
D. Gri	aggtgcag	agcttgtgcga	...250...	gctgttcttggcggaaac	-----	GGAAatGCGCCACA	-----	agcagcattttcagcatgtg	...1029...	gatttctctgtag	tttcgccc--
D. Per	ggctgggg	gcccaggggg	...218...	---ggccgggggtggggcagt	g---TGTGgc	GCGGaaGCGGAAATGCGCCACA	agcagctcccgtgggtcca	-----	...1263...	---tctcttccg	tttcgctggat
D. Pse	ggctgggg	gtggccaggggg	...222...	gtggcccgggggtggggcagt	GTGTgTGTGgc	GCGGaaGCGGAAATGCGCCACA	agcagctcccgtgggtcca	-----	...1243...	gctgtagtggc	attcgaga--
D. Vir	gagacggg	atgcccagga	...262...	atggtctgtgtggcggaaac	-----	GGAAatGCGCCACA	agca---agttgaactcgggccc	-----	...914...	ggttctcttgg	cttggatg--
D. Yak	tggtgggg	tttctaggg	...234...	ccctcctgactgccgaaac	-----	GGAAatGCGCCACA	agcagc---ggagctttttgccc	-----	...1910...	gttctctgtag	atattgtg--
	*			* *		*****	*			*	*

id=68126 gene=FBgn0050034 name=CG30034 segment=chr2R.7404276_7405679_-1 type=IN

Figure 143: CS=10.8



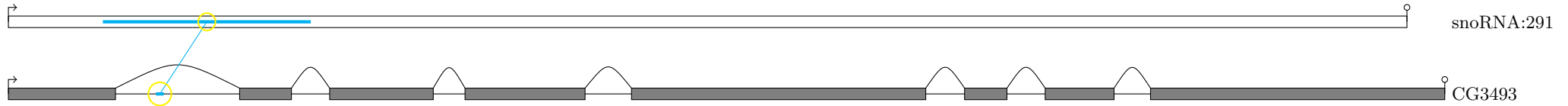
D. Mel	gtgggtgT	GGCGTTGTCC	atccgcacatgattcttctccctggaggagcgagtga-ttacctgcaagggccaaactgaaggca	cagcatcc-----
D. Sim	gtgggtgT	GGCGTTGTCC	atccgcacatgattcttctccc--ggagacgagtga-t--actgcagg---caactgaaggcg	catcctta-----
D. Ere	gcggatgT	GGCGTTGTCC	atccgcacatgattcttctccccggaggagttagtga-ttacctgcaagggccaaactgaaggca	cagcatcc-----
D. Ana	gcgtatgT	GGCGTTGTCC	atccgcacatga--ctccccattggggggcaaatga-ttacctgcaagggccaaactgagttca	cagacca-----
D. Gri	gcggatgT	GGCGTTGTCC	attcgcaaatgatggcctc-----cacatga-ttctctgcaagggccaaactgataaag	caagccagag---
D. Moj	gcggatgT	GGCGTTGTCC	attcgtaaatgatggcttc-----caggtatttttctgcaagggccaaactgattatg	caaaacaatt---
D. Pse	gcggatgT	GGCGTTGTCCGTT	cgcatatgatgccccac-----agcacatga-ttttctgcaagggccaaactgatgtag	caatcgaagccatc
D. Vir	gcggatgT	GGCGTTGTCC	attcgcaaatgatggtttc-----cacgtga-ttctctgcaagggccaaactgataaat	caaaccaa-----
D. Yak	gcggatgT	GGCGTTGTCC	atccgcacatgatacttctcctcgaggagcgagtga-ttacctgcaagggccaaactgaaggca	cagcatcc-----
	* * *	*****	*** * ***** * *****	**

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290_24638363.1 type=EN

D. Mel	ccgagaag	gtaagttccata...	983...	ag--ccaaa-cgctccgccatcc	GGAAgaCAATGCCA	aacgagcggcgaacgaggag...	756...	gcatacttttag	gtgcttgc
D. Sim	ccgagaag	gtaagttccata...	960...	ag--ccaaa-cgctccgccatcc	GGAAgaCAATGCCA	aacgagcggcgaacgaggag...	755...	gcatacttttag	gtgctcgc
D. Ere	ccgagaag	gtaagttcgatg...	975...	ag--ccaaa-cgctccgccatcc	GGAAgaCAATGCCA	aacgggcggcgaacgaggag...	773...	gcatacttttag	gtgctcac
D. Ana	ccgagaag	gtaagttccact...	810...	-g--ccaaaccgctccgccagc	GGAAgaCAATGCCA	aacgagaaaacgagaacgag...	643...	gcatacttctag	gtgctcac
D. Gri	cggaaaag	gtaagttacaaa...	1737...	caagctggagagccgc--agcc	GGAAgaCAATGCCA	aaacaagcgcgcccaatgtgc...	668...	gcatacttctag	gtgcttac
D. Moj	cggaaaag	gtaagttccaaa...	1840...	gagccaaaagtgcgc--agcc	GGAAgaCAATGCCA	aacgagcgcgcccaatgcga...	595...	gcatacttttag	gtgctcgc
D. Pse	ccgagaag	gtaagttcctgaa...	1932...	tgctccaatccgctccacaa	GGCGGAAgaCAATGCCA	aacgagcgcgacgaagactcct...	479...	gcatacttttag	gtgcttac
D. Vir	cggaaaag	gtaagttacaaa...	1835...	gagccaaaagtgcgc--agcc	GGAAgaCAATGCCA	aacgagcgcctccgatgcgc...	568...	gcatacttttag	gtgcttac
D. Yak	ccgagaag	gtaagttccata...	1027...	ag--ccaaa-cgctccgccatcc	GGAAgaCAATGCCA	aacgggcggcgaacgacgag...	797...	gcatacttttag	gtgctcac
	* * *	*****		*	** * * ***** * *			*****	*** ***** *

id=12955 gene=FBgn0004619 name=Glu-RI segment=chr3L.6620159.6621975.1 type=IN

Figure 144: CS=10.62



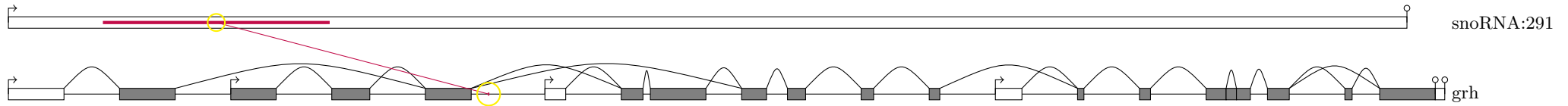
D. Mel	gtgggTGT	GGCGTTGTT	ccatccgcacatgattcttctccctggaggagc	gagtgattac	-ctgcaaggccaactgaaggca	cagcatcc--
D. Sim	gtgggTGT	GGCGTTGTT	ccatccgcacatgattcttctccc--	ggagacgagtgat--a	-ctgcagg--caactgaaggcg	catcctta--
D. Sec	gtgggTGT	GGCGTTGTT	ccatccgcacatgattcttctccctggaggagc	gagtgattac	-ctgcaaggccaactgaaggca	cagcatcc--
D. Ere	gcggaTGT	GGCGTTGTT	ccattcgcacatgattcttctcccggaggagtt	tagtgattac	-ctgcaaggccaactgaaggca	cagcatcc--
D. Ana	gcgtaTGT	GGCGTTGTT	ccatacgcacatga--ctccccattgggggg	caaatgattac	-ctgcaaggccaactgagttca	cagacc--
D. Gri	gcggaTGT	GGCGTTGTT	ccattcgcacatgattcttctcccggaggagtt	tagtgattac	-ctgcaaggccaactgagttca	cagacc--
D. Gri	gcggaTGT	GGCGTTGTT	ccattcgcacatgattcttctcccggaggagtt	tagtgattac	-ctgcaaggccaactgagttca	cagacc--
D. Moj	gcggaTGT	GGCGTTGTT	cCATTcgtaaatgatggcttccag-----	gtgatttttctgcaaggccaactgattatg		caaaacaatt
D. Vir	gcggaTGT	GGCGTTGTT	ccattcgcacatgattcttctcccggaggagtt	tagtgattac	-ctgcaaggccaactgagttca	caaacca--
D. Yak	gcggaTGT	GGCGTTGTT	ccatccgcacatgatacttctcctcggaggagc	gagtgattac	-ctgcaaggccaactgaaggca	cagcatcc--
	* * **	*****	* * ****	*	****	***** * ***** **

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290_24638363.1 type=EN

D. Mel	ctgcacag	gtat	ttttgtgtgcggggcggggcggtgcttattg	ccgatgaaaaatgcaaatgaggaaAACAt-ACGC	CACAGacacggaattgcatgtgtg-...104...ctttttccag	gccgccgt
D. Sim	ctgcacag	gtat	ttttgggtgcggggcgggggaggtg	cgactgccgatgaaaaatgcaaatgaggaaAACAt-ACGC	CACAGacacggaattgcatgtgtg-...565...ctttttccag	gccgccgt
D. Sec	ctgcacag	gtat	ttttgggtgcggggcgggggaggtg	cgactgccgatgaaaaatgcaaatgaggaaAACAt-ACGC	CACAGacacggaattgcatgtgtg-...101...ctttttccag	gccgccgt
D. Ere	ctgcacag	gtat	ttttgggtgcggggcgggg-----	gcggttgcacatgaaaaatgcaaatgaggaaAACAt-ACGC	CACAGacacggaattgcatatgtg-...87...ctttttccag	gccgccgt
D. Ana	ctgcccag	gtact	ttctcgttaggggggatgcgggg-----	tcagatgaaaagtgcaaatgaggaaAACAt-ACGC	CACAAcacaagcagtagcaccag-...104...cattccttcag	gccgccgt
D. Gri	cagcccag	gca-----	-----	agaaacag-----acagaaaaaatgcaaatgaggaaAACAt-ACGC	CACAAcacaagcagtag-...245...ttgtattgtag	gccgccgt
D. Moj	cagcccag	gca-----	-----	ag-----atagaaaaaatgcaaatgaggaaAACAt-ACGC	CACAAcacaagcagtag-...208...gctttattgtag	gccgccgt
D. Vir	cagcccag	gc-----	-----	aa-----gtaacaaaaagtgcaaatgaggaaAACAt-ACGC	CACAAcacaagcagtag-...217...atgctttatag	gccgccgt
D. Yak	ctgcacag	gtat	ttttgggtgcggggcgggg-----	gcggttgcacatgaaaaatgcaaatgaggaaAACAt-ACGC	CACAGacacggaattgcatgtgtg-...95...ctttttccag	gccgccgt
	* * **	*		**** * * * * *	***** * * * * *	* * **** **

id=128704 gene=FBgn0034854 name=CG3493 segment=chr2R.19264143_19264353.-1 type=IN

Figure 146: CS=11.97



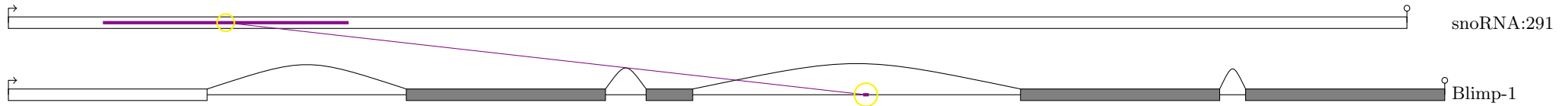
D. Mel	gtgggTGT	GGCGTtGTTc	catccgcacatgattcttctccctggaggagcagtgatga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Sim	gtgggTGT	GGCGTtGTTc	catccgcacatgattcttctccc---ggagacgagtgat-t--actgcagg---caactgaaggcg	catcctta-----
D. Sec	gtgggTGT	GGCGTtGTTc	catccgcacatgattcttctccctggaggagcagtgatga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ere	gcggaTGT	GGCGTtGTTc	cattcgcacatgattcttctccccggaggagtagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ana	gcgtaTGT	GGCGTtGTTc	cataccgacatga--ctccccattggggggcaaatga-ttacctgcaaggccaactgagttca	cagacca-----
D. Gri	gcggaTGT	GGCGTtGTTc	cattcgcacatgattcttctccccggaggagtagtga-ttacctgcaaggccaactgataaag	caagccagag----
D. Moj	gcggaTGT	GGCGTtGTTc	cattcgtaaatgatggcttc-----cacatga-ttctctgcaaggccaactgataaag	caa----aacaa
D. Per	gcggaTGT	GGCGTtGTTc	cgttcgcacatgatgccccac-----agcacatga-ttttctgcaaggccaactgatgtag	caatcgaagccatc
D. Pse	gcggaTGT	GGCGTtGTTc	cgttcgcacatgatgccccac-----agcacatga-ttttctgcaaggccaactgatgtag	caatcgaagccatc
D. Vir	gcggaTGT	GGCGTtGTTc	cattcgcacatgattcttctccccggaggagtagtga-ttacctgcaaggccaactgataaag	caaacca-----
D. Wil	gcggATGT	GGCGTtGTTc	cattcgtatgatggttc-----caaatga-ttttctgcaaggccaactgatgagc	caaacgca-----
D. Yak	gcggaTGT	GGCGTtGTTc	catccgcacatgatacttctctcctcgaggagcagtgatga-ttacctgcaaggccaactgaaggca	cagcatcc-----
	* * **	*****	*** * ***** * *****	**

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290.24638363.1 type=EN

D. Mel	ccccaaag	gta-ggccaacaaaacatatt-----	ctggaagctctctttatgaa---taaaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1965...	---tcggcggccttt	agtcagtc
D. Sim	cgcagaag	gta-ggccaacaaaacatatt-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1873...	---tcggcggccttt	agtcagtc
D. Sec	cgcagaag	gtagggccaacaaaacatatt-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1877...	---tcggcggccttt	agtcagtc
D. Ere	cgcagaag	gta-ggccaacaaaacatatt-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1972...	---tcggcggccttt	agtcagtc
D. Ana	cgcaaaag	gta-ggcttaaaaaata-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1638...	---tcggcggccttt	agtcagtc
D. Gri	cgcaaaag	gta-ggcaaaaaacac-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1285...	gtggaatcgg---tc	agtcagtc
D. Moj	cgcaaaag	gta-ggcaaaaaacac-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1303...	gtggaatcgg---tc	agtcagtc
D. Per	cgcaaaag	gtaagacata-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1164...	---ccacacggcgtc	attcattc
D. Pse	cgcaaaag	gtaagacata-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1156...	---ccacacggcgtc	attcattc
D. Vir	cgcaaaag	gta-ggaaaa---gttaatgct-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1214...	gtggaatcgg---tc	agtcagtc
D. Wil	cgcaaaag	gta-ggcaaa-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1262...	---acttctgcctc	agtcagtc
D. Yak	cgcaaaag	gta-ggccaacaaaacatatttttaaaccaaac-----	ctggaagctctctttatgaa---t-aaaaaaagttaatGGACACGCaCGCA-	aatttcaatttagaagcaag...1936...	---tcggcggccttt	agtcagtc
	* * **	*** * *	* * *	**** ***** ** *	* *	* * *

id=55354 gene=FBgn0259211 name=grh segment=chr2R.13708917.13711069.1 type=IN

Figure 147: CS=12.96



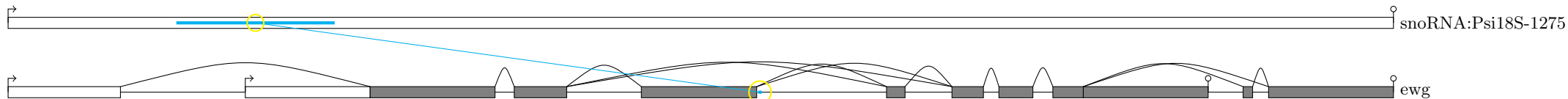
D. Mel	gTGGGTGT	GGCGTtGTTCC	atccgcacatgattcttctccctggaggagcagagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Sim	gTGGGTGT	GGCGTtGTTCC	atccgcacatgattcttctccc---ggagacgagtga-t--actgcagg---caactgaaggcg	catcctta-----
D. Sec	gTGGGTGT	GGCGTtGTTCC	atccgcacatgattcttctccctggaggagcagagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ere	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
D. Ana	gcgtaTGT	GGCGTtGTTCC	atccgcacatga--ctccccattggggggcaaatga-ttacctgcaaggccaactgagttca	cagacca-----
D. Gri	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgataaag	caagccagag----
D. Moj	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgataaag	caa----aacaatt
D. Per	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgataaag	caatcgaagccatc
D. Pse	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgataaag	caatcgaagccatc
D. Vir	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgataaag	caaacca-----
D. Wil	gcggaTGT	GGCGTtGTTCC	attcgcacatgattcttctccccggaggagttagtga-ttacctgcaaggccaactgataaag	caaacgca-----
D. Yak	gcggaTGT	GGCGTtGTTCC	atccgcacatgatacttctcctcggaggagcagagtga-ttacctgcaaggccaactgaaggca	cagcatcc-----
	* * **	*****	*** * ***** * *****	**

id=60173 gene=FBgn0065070 name=snoRNA:291 segment=chr3R.24638290.24638363.1 type=EN

D. Mel	tctggcgg	gtaagcatcctc...388...	-tgtggttaaatcaggtgcagGGAACACGCcaCATAcCTA	cgggaatattaaggtaccac...351...----ctcttctgtag	atcttcaa
D. Sim	tctggcgg	gtaagcatcctc...375...	-tgtggttaaatcaggtgcagGGAACACGCcaCATAcCTA	cgggaatattaaggtaccac...347...----ctcttctgtag	atcttcaa
D. Sec	tctggcgg	gtaagcatcctc...378...	-tgtggttaaatcaggtgcagGGAACACGCcaCATAcCTA	cgggaatattaaggtaccac...348...----gtcttctgtag	atcttcaa
D. Ere	tctggcgg	gtaagcatcctc...374...	ttgtggtt-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...352...----tttctcctgtag	atcttcaa
D. Ana	tctggcgg	gtaagcatcctc...405...	ttgctgtt-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...308...tttcatctct---ag	atcttcaa
D. Gri	tctggcgg	gtaagcattatc...324...	-tgatatacaatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...269...----caatctgtgtag	atcttcaa
D. Moj	tctggcgg	gtaagcatcctc...327...	-tgaatttgaatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...251...----atctctatgcag	atcttcaa
D. Per	tttggagg	gtaagcattaca...335...	ttcgaaaa-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...314...----atgcttctgtag	atcttcaa
D. Pse	tttggagg	gtaagcattaca...322...	ttcgaaaa-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...304...----atgcttctgtag	atcttcaa
D. Vir	tctggcgg	gtaagcacaaca...329...	aaaaaaat-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...306...----cactctcctgtag	atcttcaa
D. Wil	tttggcgg	gtaagttatcca...291...	atataaaa-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...436...----ttaacaaatag	atcttcaa
D. Yak	tctggcgg	gtaagcatcctc...388...	ttgtggtt-aatcaggtgcagGGAACACGCcaCATA	acctacgggaatattaaggt-----...356...----ctcttctgtag	atcttcaa
	* ** *	*****	*****	*** *****	**

id=37281 gene=FBgn0035625 name=Blimp-1 segment=chr3L.5637952.5638774.1 type=IN

Figure 148: CS=12.96



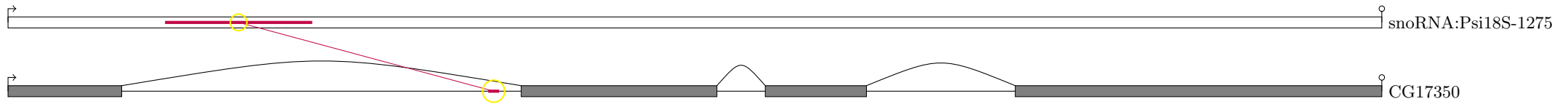
D. Mel	caaaggct	tttgcccc	GGTTG	GTACG	gaAATA	cggtgtt	-agcatctagaaca	-----	..82..	gcagcgacagct	ttgctttt
D. Sim	caaaggct	tttgcccc	GGTTG	GTACG	gaAATA	cggtgtt	taagcatctagaac	-----	..83..	gcagcgacagct	ttgctttt
D. Sec	caaaggct	tttgcccc	GGTTG	GTACG	gaAATA	cggtgtt	taagcatctataac	-----	..83..	gcagcgacagat	ttgctttt
D. Ere	caatggct	tttgcccc	GGTTG	GTACG	gaAATA	cggtgtt	taaacatctagaac	-----	..83..	gcagcgacagct	ttgcttta
D. Ana	caatatca	attgcccc	GGTTG	GTACG	gaAATA	AGTGT	ttaaacatctgaacagttt	..78..	gcaacgatagct	tagctatt	
D. Gri	atgttatt	tttgcccc	GGTTG	GTACG	gaAATA	TGTGT	-aagatttctttaacaattc	..80..	gcagcgacagct	atgcaatt	
D. Moj	aatatcat	tttgcccc	GGTTG	GTACG	gaAATA	TAT	-gcgagaacttcttaacaat	---76..	gctgcgacagct	atgcagct	
D. Per	aaatggta	tttgcccc	GGTTG	GTACG	gaAATA	TGTGT	ttaaacatgttggactgttt	..75..	gcagcgatagct	gtgctatt	
D. Pse	aaatggta	tttgcccc	GGTTG	GTACG	gaAATA	TGTGT	ttaaacatgttggacagttt	..75..	gcagcgatagct	gtgctatt	
D. Vir	aaagtaat	tttgcccc	GGTTG	GTACG	gaAATA	TGTGAC	aatacatctttaacaattc	..73..	gcagcgacagct	atgcaact	
D. Yak	aaatggct	tttgcccc	GGTTG	GTACG	gaAATA	cggtgtt	taaacatctagaac	-----	..83..	gcagcgacagct	ttgctttt
		***** * * * * ** ** ** *									

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D. Mel	atgttgaT	GTTCTACTAATC	cg--gat	aatgccctttaa	...501..	gttctgttcag	ctgattgt
D. Sim	atgttgaT	GTTCTACTAATC	cg--gat	aatgccctttaa	...499..	gttctgttcag	ctgattgt
D. Sec	atgttgaT	GTTCTACTAATC	cg--gat	aatgccctttaa	...499..	gttctgttcag	ctgattgt
D. Ere	atgttgaT	GTTCTACTAATC	cg--gat	aatgccctttaa	...481..	gttctgttcag	ctgattgt
D. Ana	aCGTgaT	GTTCTACTAATC	cg--act	aaaagtctactcca	...971..	tttcttttcag	cgaatggg
D. Gri	aCGTgaT	GTTCTACTAATC	tg--tct	gaactgtaactaaa	...904..	tctcgtttacag	cagctttt
D. Moj	acgttgAT	GTTCTACTAATC	tc--tct	gaactgtaactaaa	...1186..	tctcatttcag	ctgaattt
D. Per	aCGTgaT	GTTCTACTAATC	tgaaa	aatgaaactgaatctg	...1014..	gtctttttcag	ctgggttt
D. Pse	aCGTgaT	GTTCTACTAATC	tgaaa	aatgaaactgaatctg	...1034..	gtctttttcag	ctgggttt
D. Vir	acGTTGAT	GTTCTACTAATC	tg--tct	gaactgtaactaaa	...971..	atatttttttg	ctatttgt
D. Yak	atgttgaT	GTTCTACTAATC	cg--gat	aatgccctttaa	...529..	gttctgttcag	ctgattgt
		* ***** * * * * * ** *					

id=43017 gene=FBgn0005427 name=ewg segment=chrX.165909.166454.-1 type=IN

Figure 149: CS=15.95



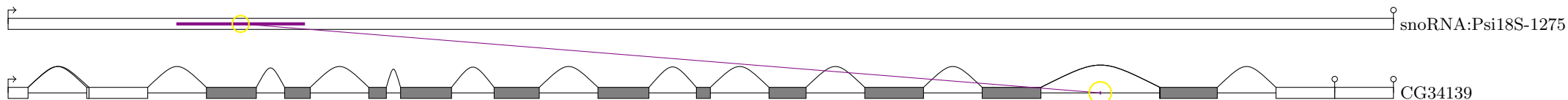
D.Mel	caaaggct	tttgccccCGGTTgAGTAcGAAAT	acgtgttt-agcatctagaac-...83...	gcagcgacagct	ttgctttt		
D.Sim	caaaggct	tttgccccCGGTTgAGTAcGAAAT	acgtgtttaagcatctagaa-...84...	gcagcgacagct	ttgctttt		
D.Sec	caaaggct	tttgccccCGGTTgAGTAcGAAAT	acgtgtttaagcatctataa-...84...	gcagcgacagat	ttgctttt		
D.Ere	caatggct	tttgccccCGGTTgAGTAcGAAAT	acgtgtttaaacatctagaa-...84...	gcagcgacagct	ttgcttta		
D.Ana	caatatca	attgccccCGGTTgAGTAcGAAAT	aagtgtttaaacatcttgaa-...84...	gcacgatagct	tagctatt		
D.Moj	aatatcat	tttgccccCGGTTgAGTAcGAAAT	atgcgaga--acttctttaaca...78...	gctgcgacagct	atgcaact		
D.Per	aaatggta	tttgccccCGGTTgAGTAcGAAAT	atgtgtttaaacatgttga-...81...	gcagcgatagct	gtgctatt		
D.Pse	aaatggta	tttgccccCGGTTgAGTAcGAAAT	atgtgtttaaacatgttga-...81...	gcagcgatagct	gtgctatt		
D.Vir	aaagtaat	tttgccccCGGTTgAGTAcGAAAT	atgtgacaatacatcttta-...80...	gcagcgacagct	atgcaact		
D.Wil	actctgtt	cctgccccGGTTgAGTAcGAAAT	gtgctaataatctatatttga-...90...	gcagcaacaact	atgcaact		
D.Yak	aaatggct	tttgccccCGGTTgAGTAcGAAAT	acgtgtttaaacatctagaa-...84...	gcagcgacagct	ttgctttt		
		*****	*	*	*	**	**

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D.Mel	cgtccaag	gttgttcaaagt...694...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgacgct-ggcgtcgg	-----atggcaaccag	gtcaggcg
D.Sim	cgtccaag	gttgttcaaagt...962...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgacgct-ggcgtcgg	-----atggcaaccag	gtcaggcg
D.Sec	cgtccaag	gttgttcaaagt...761...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgacgct-ggcgtcgg	-----atggcaaccag	gtcaggcg
D.Ere	cgtccaag	gttgttcaaagt...763...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgatgct-ggcgtcgg	-----atggcaaccag	gtcaggcg
D.Ana	cgtccaag	gttgttctgagt...727...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaacaacacgatgatggccaccg	-----atggcaaccag	gtcaggcg
D.Moj	cgccaag	gttgttcagcaa...1853...	--aaatttctctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgtttgc	-----tccgtaaccag	gtcagtcg
D.Per	tgtccaag	gttgtctacgagt...894...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgacgac-gacgtggc	-----gt-gcaaccag	gtcaggcg
D.Pse	tgtccaag	gttgtctacgagt...908...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgacgac-gacgtggc	-----gt-gcaaccag	gtcaggcg
D.Vir	tgccaag	gttgttaaagcaa...882...	--aaatttctctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaata--tcgttgctggacatggccctatt	-----ggcgttaaccag	gtcaggcg
D.Wil	tgccaag	gttgttaaata...2058...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acaacgat-gtcgacgacccgacgctgatgatgatggctggaacgtggatgtggcaaccag	-----gtcaaccag	gtcaaccg
D.Yak	cgtccaag	gttgttcaaagt...769...	ttaaatt--tctgctaataatctc	ATTTCaTGCTaAACCG	aaaacaaaca--acgatgct-ggcgtcgg	-----atggcaaccag	gtcaggcg
		* ****	****	*****	*****	*	*
			*****	*****	*****	*	*
						*	*****
							**** *

id=37651 gene=FBgn0032772 name=CG17350 segment=chr2L.19381085_19381864.1 type=IN

Figure 150: CS=11.88



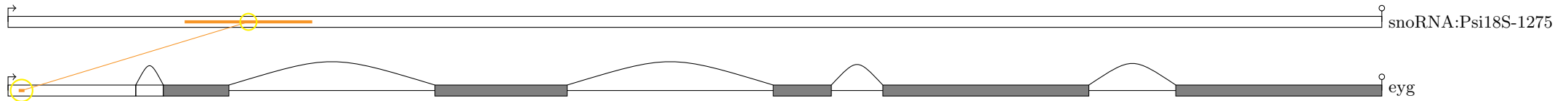
D. Mel	caaaggct	tttgccccGGTTgAGTAcGGAAT	-----acgtgttt-agcatctaga---	ac...83...	gcagcgacagct	ttgctttt
D. Sec	caaaggct	tttgccccGGTTgAGTAcGGAAT	-----acgtgtttaagcatctata---	a...84...	gcagcgacagat	ttgctttt
D. Ere	caatggct	tttgccccGGTTgAGTAcGGAAT	-----acgtgtttaaacatctaga---	a...84...	gcagcgacagct	ttgcttta
D. Gri	atgttatt	tttgccccGGTTgAGTAcGGAAT	-atgtgtaagatttcttaac-----	...86...	gcagcgacagct	atgcaatt
D. Moj	aatatcat	tttgccccGGTTgAGTAcGGAAT	atGCGAG--aacttctttaacaatttctt	...71...	gctgcgacagct	atgcaact
D. Per	aaatgta	tttgccccGGTTgAGTAcGGAAT	-----atgtgtttaaacatggttg---	a...81...	gcagcgatagct	gtgctatt
D. Pse	aaatgta	tttgccccGGTTgAGTAcGGAAT	-----atgtgtttaaacatggttg---	a...81...	gcagcgatagct	gtgctatt
D. Vir	aaagtaat	tttgccccGGTTgAGTAcGGAAT	atGTGAcaatacatctttaacaattt	...74...	gcagcgacagct	atgcaact
D. Wil	actctggt	cctgccccGGTTgAGTAcGGAATG	-----tgct--aatatctatatttgac...	89...	gcagcaacaact	atgcaaca
D. Yak	aaatggct	tttgccccGGTTgAGTAcGGAAT	-----acgtgtttaaacatctaga---	a...84...	gcagcgacagct	ttgctttt
		*****	* * *		** * * * *	***

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D. Mel	cactacag	gtgagtgcaga...2964...	-----acag-catttccggtcttgtc	ATTTCaTACTAATC	-aacatccg-ttgagcggaatt--	...1947...	ttctccgtgcag	cagagctg
D. Sec	cacgacag	gtgagtgcaga...2933...	-----acag-catttccggtcttgtc	ATTTCaTACTAATC	-aacatccg-ttgagcggaatt--	...1978...	ttctccgtgcag	cagagctg
D. Ere	cacgacag	gtgagtgcagg...3025...	-----acag-catttccggtcttgtc	ATTTCaTACTAATC	-aacatccg-ttgagcggaatt--	...1886...	ttctccgtgcag	cagatctg
D. Gri	aacgacag	gtgagtgtgtg...3166...	-----gctg-catttccgaccttgtc	ATTTCaTACTAATC	-aacatccgttcaa--aaattgt...	1745...	gcagaactacaa	caatatca
D. Moj	aactacag	gtgagttcagca...2549...	atgatgacag-catatccggc	CTTGTcATTTCaTACTAATC	-aacatccgct--aactactttt...	2356...	ctatctcattc	cagaacta
D. Per	cacgacag	gtgagtgcgaa...2659...	-----cagg-catttccggtcttgtc	ATTTCaTACTAATC	-aacatccgtttgagcggaac---	2252...	gcagaactacag	caatatca
D. Pse	cacgacag	gtgagtgcgaa...2656...	-----cagg-catttccggtcttgtc	ATTTCaTACTAATC	-aacatccgtttgagcggaac---	2255...	tatcaacaacag	cagcagca
D. Vir	aacgacag	gtgagtcgatg...2503...	-tgcatgctg-cgtttcaggcc	TTGTcATTTCaTACTAATC	-aacgtacg-taaagcgctttt--	2403...	ctgccttttta	cagaacta
D. Wil	aacgacag	gtgagcgaacat...3334...	-----ttagcatttccgttcttgt	CATTTCaTACTAATC	caaatccgct---ctaaatgaa...	1576...	gcctcctcttt	cagaactc
D. Yak	cacgacag	gtgagtgcaga...2942...	-----acag-catttccggtcttgtc	ATTTCaTACTAATC	-aacatccg-ttgagcggaatt--	1969...	ttctccgtgcag	cagagctg
	** ****	*****	* * * * *	*****	* * * * *		**	**

id=40545 gene=FBgn0083975 name=CG34139 segment=chr3R.16053824_16063609.1 type=IN VIEW

Figure 151: CS=10



```

D.Mel  caaaggct tttgccccgGTTGagTACGGAAAtacgtgttt-agcatctagaa-----..84...gcagcgacagct ttgctttt
D.Sim  caaaggct tttgccccgGTTGagTACGGAAAtacgtgtttaagcatctaga-----..85...gcagcgacagct ttgctttt
D.Sec  caaaggct tttgccccgGTTGagTACGGAAAtacgtgtttaagcatctata-----..85...gcagcgacagat ttgctttt
D.Ere  caatggct tttgccccgGTTGagTACGGAAAtacgtgtttaaacatctaga-----..85...gcagcgacagct ttgcttta
D.Ana  caatatca attgccccgGTTGagTACGGAAAtaagtgtttaaacatcttga-----..85...gcaacgatagct tagctatt
D.Gri  atgttatt tttgccccgGTTGagTACGGAAAtatgtg-taagatttcttaa-----..87...gcagcgacagct atgcaatt
D.Moj  aatatcat tttgccccgGTTGagTACGGAAAtatgog--agaacttctttaa-----..79...gctgcgacagct atgcagct
D.Vir  aaagtaat tttgccccgGTTGagTACGGAAAtatgtgacaatacatcttta-----..81...gcagcgacagct atgcaact
D.Wil  actctgtt cctgccccgGTTGagTACGGAAAtgTGCT----aatatctatattgacaatt...85...gcagcaacaact atgcaaca
D.Yak  aaatggct tttgccccgGTTGagTACGGAAAtacgtgtttaaacatctaga-----..85...gcagcgacagct ttgctttt
***** * ** * ** * *

```

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

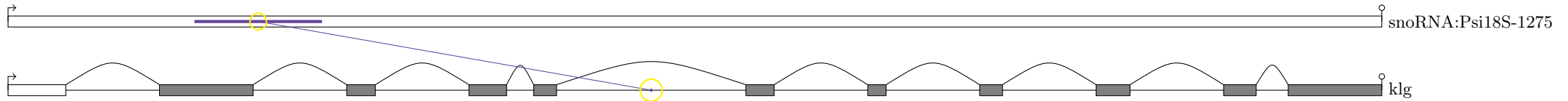
```

D.Mel  caagcgct cattgtgctgagagcagcTTTCgCGTGaaCAACgtttcaacggagc--gcagtgt--..245...acacttgtgact gtgatt---gt-----
D.Sim  caagcgct cattgtgctgagagcagcTTTCgCGTGaaCAACgtttcaacggagc--gcagcgt--..248...acactagtgact gtgatt---gt-----
D.Sec  caagcgct cattgtgctgagagcagcTTTCgCGTGaaCAACgtttcaacggagc--gcagcgt--..248...acactagtgact gtgatt---gt-----
D.Ere  caagcgct cattgtgctgagagcagcTTTCgCGTGaaCAACgtttcaacggagc--gcagcgt--..235...acattagtgact gtgatt---gt-----
D.Ana  caagcgct cattgtgctaagagcagcTTTCgCGTGaaCAACgtttcatcggagc--gcagcgg--..216...-----gtgatt gtaacc---gctttgtg
D.Gri  ctgccact cagtgtgctgagagcggcTTTCaCGTGaaCAACgttcaaacggaac---agcgtcg...250...gtatgtgtgtgt gtgtgt---gt-----
D.Moj  ctgccact cagtgtgctgagagcggcTTTCaCGTGaaCAACgttcaaacggaac---aacgtcg...189...gtcacagtgacc gtaact---gt-----
D.Vir  ctggcact cagtgtgctgagagcggcTTTCaCGTGaaCAACgttcaaacggaac---aacgtcg...204...gtgcctgtgact gtgact---gt-----
D.Wil  attcaatt cagtgcgctgagAGCAgctTTTCaCGTGaaCAACgtagccacggaaccggaagc---..382...-----att ctcactccagtgtgtg
D.Yak  caagcgct cattgtgctgagagcagcTTTCgCGTGaaCAACgtttcaacggagc--gcagcgt--..239...acattagtgact gtgatt---gt-----
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

```

id=105121 gene=FBgn0000625 name=eyg segment=chr3L.12460812.12461121.-1 type=E5

Figure 152: CS=10.8



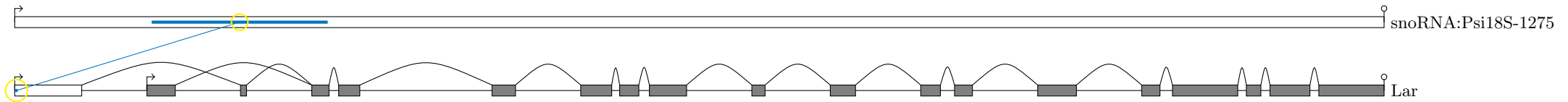
D. Mel	caaaggct	tttgcccc	GGTTGA	gtACGGAAAT	--acgtgttt-agcatctagaac-----	..83..	gcagcgacagct	ttgctttt
D. Sim	caaaggct	tttgcccc	GGTTGA	gtACGGAAAT	--acgtgtttaagcatctagaa-----	..84..	gcagcgacagct	ttgctttt
D. Sec	caaaggct	tttgcccc	GGTTGA	gtACGGAAAT	--acgtgtttaagcatctataa-----	..84..	gcagcgacagat	ttgctttt
D. Ere	caatggct	tttgcccc	GGTTGA	gtACGGAAAT	--acgtgtttaaacatctagaa-----	..84..	gcagcgacagct	ttgcttta
D. Ana	caatatca	attgcccc	GGTTGA	gtACGGAAAT	--aagtgtttaaacatcttgaa-----	..84..	gcaacgatagct	tagctatt
D. Gri	atgttatt	tttgcccc	GGTTGA	gtACGGAAATATGT	gTAAG--atcttcttaacaatttcctt..	..77..	gcagcgacagct	atgcaatt
D. Moj	aatatcat	tttgcccc	GGTTGA	gtACGGAAAT	---atgcgagaactctttaaca-----	..78..	gctgcgacagct	atgcaact
D. Pse	aatggta	tttgcccc	GGTTGA	gtACGGAAATATGT	--gtttaaacatggttgacagt-----	..77..	gcagcgatagct	gtgctatt
D. Vir	aaagtaat	tttgcccc	GGTTGA	gtACGGAAATATGT	--gacaatacatcttaacaat-----	..76..	gcagcgacagct	atgcaact
D. Wil	actctgtt	cctgcccc	GGTTGA	gtACGGAAATGT	gctaataatctatatttgaca-----	..88..	gcagcaacaact	atgcaaca
D. Yak	aaatggct	tttgcccc	GGTTGA	gtACGGAAAT	--acgtgtttaaacatctagaa-----	..84..	gcagcgacagct	ttgctttt
			*****		* * *		** * * *	**

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D. Mel	ccaagaag	ggtt---cg---ttacaca...1512...	-----	tgcactttggcgcatcttgac	ATTTCGGTTCGATT	tgtttgcttctaggtaggta-...693...	atatccttgag	agcggcgc
D. Sim	ccaagaag	ggtt---cg---ttacaca...1498...	-----	tgcactttggcgcatcttgac	ATTTCGGTTCGATT	tgtttgcttctacgtaggta-...2230...	atatccttgag	agcggcgc
D. Sec	ccaagaag	ggtt---cg---ttacaca...1427...	-----	tgcactttggcgcatcttgac	ATTTCGGTTCGATT	tgtttgcttctacgtaggta-...607...	atatccttgag	agcggcgc
D. Ere	ccaagaag	ggtt---cg---ttacaca...1407...	-----	tgcactttggcgcatcttgac	ATTTCGGTTCGATT	tgtttgcttctacgtaggta-...670...	atatccttgag	agcggcgc
D. Ana	ccaagaag	ggtt---tg---ttcagct...1203...	-----	tgcactttggcgcatcttgac	ATTTCGGTTCGATT	tgtttgcttctacgtaggta-...642...	ttttccccgtag	agcgggagc
D. Gri	ccaaaaag	gtg---tgtacgcaa...762...	-----	ccttgctgcatctttggcgca	TTTGACATTTCCGTTTCGATT	tggtgcttgcatgctt-tgc...598...	atctaccaacag	agcggcac
D. Moj	ccaagaag	ggtt---agtatttgc...848...	-----	ggcttgctgcatctt---tgcac	ATTTCGGTTCGATT	tgtttgcttgcattgctt-tgc...551...	tccttctatag	agcggcac
D. Pse	ccaaaaag	gtgggttgact-----...871...	-----	actgcatctttggcgcatcttg	ACATTTCCGTTTCGATT	tgtttgcttgcattgcatgaggca-...421...	ctcctttccag	agcggcgc
D. Vir	ccaaaaag	gtaag-tgtagtt-----...509...	-----	tctgcatctttggcacattag	ACATTTCCGTTTCGATT	tgtttgcttgcattgcatgacct-tgc...547...	gtattttgatag	agcggcac
D. Wil	ccaaaaag	ggtt---tgttttttt---...1396...	-----	ggtgcatctttggcgcatcttg	ACATTTCCGTTTCGATT	tgtttgcttgcattgcatgacct-tgc...619...	ctttattgacag	agtggagc
D. Yak	ccaagaag	ggtt---cg---ttacaca...1584...	-----	tgcactttggcgcatcttgac	ATTTCGGTTCGATT	tgtttgcttctaggtaggta-...720...	acatccttgag	agcggcgc
	**** **	** * *		*****	* * * * * * * * * * * * * * *		** * * *	**

id=62001 gene=FBgn0017590 name=klg segment=chr3R.18779191_18781473.1 type=IN VIEW

Figure 153: CS=13.2



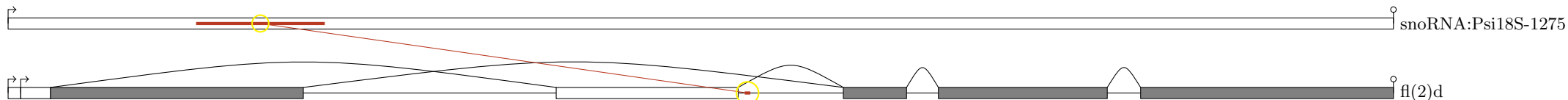
D.Mel	caaaggct	tttgcc	CCCGGTTG	GTAC	ggAAAT	acgtgttt-agcatctagaac...83...	gcagcgacagct	ttgctttt
D.Sim	caaaggct	tttgcc	CCCGGTTG	GTAC	ggAAAT	acgtgtttaagcatctagaa...84...	gcagcgacagct	ttgctttt
D.Sec	caaaggct	tttgcc	CCCGGTTG	GTAC	ggAAAT	acgtgtttaagcatctataa...84...	gcagcgacagat	ttgctttt
D.Ere	caatggct	tttgcc	CCCGGTTG	GTAC	ggAAAT	acgtgtttaaacatctagaa...84...	gcagcgacagct	ttgcttta
D.Ana	caatatca	attgcc	CCCGGTTG	GTAC	ggAAAT	taagtgtttaaacatctgaa...84...	gcaacgatagct	tagctatt
D.Gri	atgttatt	tttgcc	CCCGGTTG	GTAC	ggAAAT	atgtg-taagatttctttaac...86...	gcagcgacagct	atgcaatt
D.Vir	aaagtaat	tttgcc	CCCGGTTG	GTAC	ggAAAT	atgtgacaatacatctttaa...80...	gcagcgacagct	atgcaact
D.Wil	actctgtt	cctgcc	CCCGGTTG	GTAC	ggAAAT	gtgctaatatctatatttga...90...	gcagcaacaact	atgcaaca
D.Yak	aaatggct	tttgcc	CCCGGTTG	GTAC	ggAAAT	acgtgtttaaacatctagaa...84...	gcagcgacagct	ttgctttt
			*****		*		*	**

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D.Mel	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...466...	gcgataaatcg	gtaaaatc
D.Sim	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...454...	gcgataaatcg	gtaaaatc
D.Sec	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...465...	gcgataaatcg	gtaaaatc
D.Ere	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...454...	tcggataaatcg	gtaaaatc
D.Ana	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...521...	aatagaataatg	gtaaaatc
D.Gri	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...430...	gtaaaaaattg	attgatta
D.Vir	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaaccag...451...	acagatctttgt	gtgtggcc
D.Wil	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...450...	atgaaaatggta	aaaaaat
D.Yak	tacgtATT	TaGTACAATT	CGGG	atttggcaggatgtaacgag...454...	gcgataaatcg	gtaaaatc
	*****		*****		*	**

id=108533 gene=FBgn0000464 name=Lar segment=chr2L.19606569.19607081.1 type=E5

Figure 154: CS=10.35



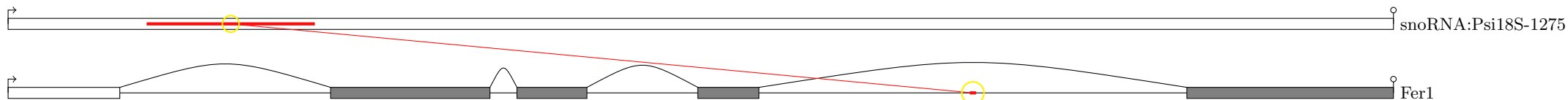
D.Me1	caaaggct	tttgccccgg	TTGAg	TACGGAAATACGTG	---	Tt-agcatctagaacagtttc	---	..77...	gcagcgacagct	ttgctttt
D.Sim	caaaggct	tttgccccgg	TTGAg	TACGGAAATACGTG	---	Ttaagcatctagaacagttt	---	..78...	gcagcgacagct	ttgctttt
D.Sec	caaaggct	tttgccccgg	TTGAg	TACGGAAATACGTG	---	Ttaagcatctataacagttt	---	..78...	gcagcgacagat	ttgctttt
D.Ere	caatggct	tttgccccgg	TTGAg	TACGGAAATACGTG	---	Ttaaacaatctagaacagttt	---	..78...	gcagcgacagct	ttgcttta
D.Ana	caatatca	attgccccgg	TTGAg	TACGgAAATaaGTG	---	TT-taaacatcttgaacagtttc	---	..77...	gcaacgatagct	tagctatt
D.Gri	atggtatt	tttgccccgg	TTGAg	TACGGAAATATGTG	---	T-aagatttcttaacaatttc	---	..80...	gcagcgacagct	atgcaatt
D.Moj	aatatcat	tttgccccgg	TTGAg	TACGgAAATATGC	---	gagaacttcttaacaattt	---	..74...	gctgcgacagct	atgcaact
D.Vir	aaagtaat	tttgccccgg	TTGAg	TACGgAAATATGTgaCAAT	---	acatctttaacaatttcctt	...	..70...	gcagcgacagct	atgcaact
D.Wil	actctgtt	cctgccccgg	TTGAg	TACGgAAAT--GTGCTAAT	---	atctatatattgacaatttc	---	..82...	gcagcaacaact	atgcaaca
D.Yak	aaatggct	tttgccccgg	TTGAg	TACGGAAATACGTG	---	Ttaaacaatctagaacagttt	---	..78...	gcagcgacagct	ttgctttt
		*****		*****		*****		*****		*****

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D.Me1	acGCATtg	GTATg	ATTTCGTATTAAG	gttcaccta	aaaaaaacaaa	...	159...	ttcgattcgag	atgagatc
D.Sim	acGCATtg	GTATg	ATTTCGTATTAAG	gttcaccta	aaaaaaacaaa	...	154...	ttcgattcgag	atgagatc
D.Sec	acGCATtg	GTATg	ATTTCGTATTAAG	gttcaccta	aaaaaaacaaa	...	153...	ttcgattcgag	atgagatc
D.Ere	acGCATtg	GTATg	ATTTCGTATTAAG	gttcacata	aaaaaaacaaa	...	153...	ttcgattcgag	atgagatc
D.Ana	acgcattG	GTATg	ATTTCGTATTAAG	gttcacac	ttaaacacact	..	147...	ttcgattcgag	atgagatc
D.Gri	acGCATtg	GTATg	ATTTCGTATTAAG	gttcaata	aaaaaaaaaaa	...	354...	acatctgtcgag	ttgagatc
D.Moj	acgcattg	GTATg	ATTTCGTATTAAG	gttc-aatt	acaacaaaaa	..	331...	atctaccacag	atgaaatc
D.Vir	acgcATTG	GTATg	ATTTCGTATTAAG	gttc-aatt	acaacaaaaa	..	314...	tcgtcccttcag	atgaaatc
D.Wil	acgcATTG	GTATg	ATTTCGTATTAAG	gttccaatt	acaacccaata	...	299...	tcccaatgcag	atgaaatt
D.Yak	acGCATtg	GTATg	ATTTCGTATTAAG	gttcaccta	aaaaaaagcaa	...	153...	ttcgattcgag	atgagatc
	*****		*****		*****		*****		*****

id=52208 gene=FBgn0000662 name=f1(2)d segment=chr2R.9709063_9709270.-1 type=IN

Figure 155: CS=10



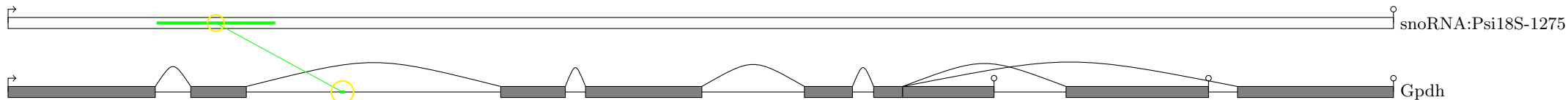
D. Mel	caaaggct	tttgcc	CCCG	TTGAGTAcg	GAAATACGT	gttt-agcatctagaacagtt...79...	gcagcgacagct	ttgctttt
D. Sim	caaaggct	tttgcc	CCCG	TTGAGTAcg	GAAATACGT	gtttaagcatctagaacagt...80...	gcagcgacagct	ttgctttt
D. Sec	caaaggct	tttgcc	CCCG	TTGAGTAcg	GAAATACGT	gtttaagcatctataacagt...80...	gcagcgacagat	ttgctttt
D. Ere	caatggct	tttgcc	CCCG	TTGAGTAcg	GAAATACGT	gtttaaacatctagaacagt...80...	gcagcgacagct	ttgcttta
D. Ana	caatatca	attgcc	CCCG	TTGAGTAcg	GAAATaagtgtttaaacatctttaa	----...84...	gcaacgatagct	tagctatt
D. Gri	atgttatt	tttgcc	CCCG	TTGAGTAcg	GAAATATGT	-gtaagatttctttaacaatt...82...	gcagcgacagct	atgcaatt
D. Per	aaatggta	tttgcc	CCCG	TTGAGTAcg	GAAATATGT	gtttaaacatgttggactgt...77...	gcagcgatagct	gtgctatt
D. Pse	aaatggta	tttgcc	CCCG	TTGAGTAcg	GAAATATGT	gtttaaacatgttgacagt...77...	gcagcgatagct	gtgctatt
D. Vir	aaagtaat	tttgcc	CCCG	TTGAGTAcg	GAAATATGT	gacaatacatctttaacaat...76...	gcagcgacagct	atgcaact
D. Yak	aaatggct	tttgcc	CCCG	TTGAGTAcg	GAAATACGT	gtttaaacatctagaacagt...80...	gcagcgacagct	ttgctttt
***** ** * * * ** * **								

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D. Mel	ggatcgca	gtgagttgtcaa...1418...	tggccatgctgatggcgaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...1993...	tccaattgcag	ctggcggc
D. Sim	ggatcgca	gtgagttgtcaa...1354...	tggccatgctgatggcgaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...1273...	taccaattgcag	ctggcggc
D. Sec	ggatcgca	gtgagttgtcaa...1399...	tggccatgccgatggcgaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...1279...	taccaattgcag	ctggcggc
D. Ere	ggatcgca	gtgagttgtcaa...1378...	tggccatgctgatggcgaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...965...	taccattgcag	ctggcgga
D. Ana	ggatcgca	gtgagttgtcaa...1836...	--ccgagctgatgggaaaagc	GTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagcaa...729...	attaattccag	ctggcgga
D. Gri	ggatcgca	gtaagttgtcaa...2025...	tgtgtggtggttgcaaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaca...1811...	tttattttag	ctggcgga
D. Per	ggatcgca	gtaagttgtcaa...1747...	atggagctctgatggcaaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagcaa...754...	tcttcttcag	caggcggg
D. Pse	ggatcgca	gtaagttgtcaa...1792...	atggagctctgatggcaaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...757...	tcttcttcag	caggcggg
D. Vir	ggatcgca	gtaagttgtcaa...1850...	aagcatgtgatacggcaaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...589...	tgttgttacag	ctggcggc
D. Yak	ggatcgca	gtgagttgtcaa...1449...	tggccacgctgatggcgaaa	CGGTTTTCa	TGCTTAACGGG	cattaaaaatggtgcagaaa...915...	tactactgcag	ctggcggg
***** ** ***** * ** *								

id=110877 gene=FBgn0037475 name=Fer1 segment=chr3R.2963717_2967211.1 type=IN VIEW

Figure 156: CS=11.5



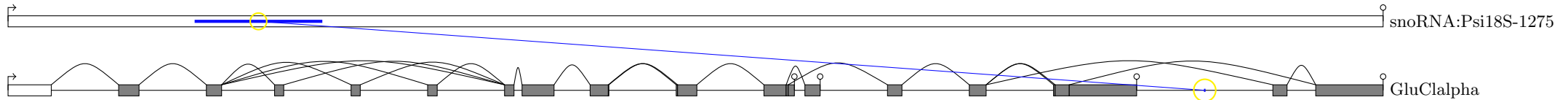
D.Mel	caaaggct	tt-TGCCCCCGTTGAGTACG	gaaatacgtgttt-agcatct-...88...	gcagcgacagct	ttgctttt
D.Sim	caaaggct	tt-TGCCCCCGTTGAGTACG	gaaatacgtgtttaagcatc--...89...	gcagcgacagct	ttgctttt
D.Sec	caaaggct	ttt-GCCCCCGTTGAGTACG	gaaatacgtgtttaagcatc--...89...	gcagcgacagat	ttgctttt
D.Ere	caatggct	tt-TGCCCCCGTTGAGTACG	gaaatacgtgtttaaacatc--...89...	gcagcgacagct	ttgcttta
D.Ana	caatatca	-attgcccCCGGTTGAGTACG	gaaataagtgtttaaacatc--...89...	gcaacgatagct	tagctatt
D.Gri	-atgttat	ttttgcccCCGGTTGAGTACG	gaaatatgtg-taagatttct-...91...	gcagcgacagct	atgcaatt
D.Moj	-aatatca	ttttgcccCCGGTTGAGTACG	gaaatatgcg--agaacttct-...83...	gctgacagagct	atgcaact
D.Per	-aaatgtg	atgtgcccCCGGTTGAGTACG	gaaatatgtgtttaaacatgt-...85...	gcagcgatagct	gtgctatt
D.Vir	-aaagtaa	ttttgcccCCGGTTGAGTACG	gaaatatgtgacaatacatc--...85...	gcagcgacagct	atgcaact
D.Yak	aaatggct	tt-TGCCCCCGTTGAGTACG	gaaatacgtgtttaaacatc--...89...	gcagcgacagct	ttgctttt
	*	*****	*	** *** ** *	**

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

D.Mel	cgaatgtg	gtgagtgttgtt...261...	--tcggcccc---	agtgcctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaatgggcccaccctcg--...1251...	cctattccacag	gttgccgt
D.Sim	cgaatgtg	gtgagtgttgg...263...	--gtccgcccc---	agtgcctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1247...	cctattccacag	gttgccgt
D.Sec	cgaatgtg	gtgagtgttgg...263...	--gtccgcccc---	agtgcctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1256...	cctattccacag	gttgccgt
D.Ere	cgaatgtg	gtgagtgttgg...245...	--atccgcccc---	agtgcctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1324...	cctattccacag	gttgctgt
D.Ana	cgaatgtg	gtaagtgttgg...444...	--tgggcccc---	attgcctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1360...	ctcacaacag	gtgctgt
D.Gri	caaatgtg	gtaagtacacag...437...	--ctctctctc---	agtgtctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1535...	ctttgttttag	attgcagt
D.Moj	caaatgtg	gtaagtacacag...437...	--agctcagcgc---	agtgtctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1933...	gcctattacag	gtagctgt
D.Per	caaatgtg	gtaagtgtgata...958...	--t---ctctcttaagttgcctttg	TCGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...2036...	tctctgaatag	gtggccgt	
D.Vir	caaatgtg	gtgagtacacag...475...	--ttctgccc---	tgtgtctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...2140...	tttctttatag	gttgcctgt
D.Yak	ccaatgtg	gtgagtgttagt...255...	--gtccgcccc---	agtgcctttga	CGTAggTCAA	ggCCGGtGGGCG	tgcaacgggcccaccctcg--...1298...	cctattccacag	gttgccgt
	*	*****	** ***	*	** **	*****	*	**	** * * * *

id=133395 gene=FBgn0001128 name=Gpdh segment=chr2L.5944446_5946043.1 type=IN

Figure 157: CS=11.5



```

D.Sim  caaaggctttgccccggTTGAGTACggAAATacgtgtttaagcatctagaa--...84...gcagcgacagctttgctttt
D.Sec  caaaggctttgccccggTTGAGTACggAAATacgtgtttaagcatctataa--...84...gcagcgacagattgctttt
D.Ere  caatggcttttccccggTTGAGTACggAAATacgtgtttaaacatctagaa--...84...gcagcgacagctttgcttta
D.Ana  caatatcaattgccccggTTGAGTACggAAATaagtgtttaaacatcttgaa--...84...gcaacgatagcttagctatt
D.Gri  atgttatTTTTGCCCCGGTTGAGTACGGAAATAgtgtta-agatttctttaaca...85...gcagcgacagctatgcaatt
D.Moj  aatatcattttgccccggTTGAGTACggAAATatgcg-a-gaacttctttaaca...78...gctgacagctatgcaact
D.Per  aaatggtatttccccggTTGAGTACggAAATatgtgtttaaacatgttggaa--...81...gcagcgatagctgtgctatt
D.Pse  aaatggtatttccccggTTGAGTACggAAATatgtgtttaaacatgttggaa--...81...gcagcgatagctgtgctatt
D.Wil  actctgttctgccccggTTGAGTACggAAATgtgtaaatatctatatattga--...90...gcagcaacaactatgcaaca
D.Yak  aaatggcttttccccggTTGAGTACggAAATacgtgtttaaacatctagaa--...84...gcagcgacagctttgctttt
***** * * * * ** * * * * **

```

id=127329 gene=FBgn0086663 name=snoRNA:Psi18S-1275 segment=chr3R.5604120_5604259.1 type=EN

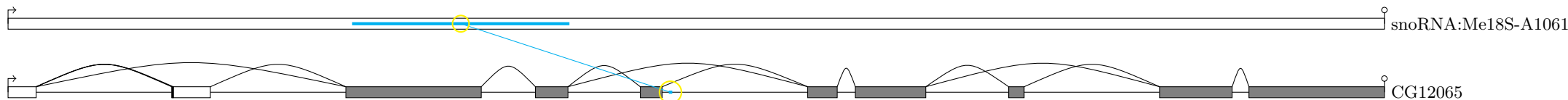
```

D.Sim  tgttctagatccaagagaat...729...-----tctaaacgaatt---gcaattgATTGTACTTAA-atgCGTtaagttagataaagc...1525...-----atggcagtcggagacgggct-
D.Sec  tgttctagatccaagagaat...750...-----tctaaacgaatt---gcaattgATTGTACTTAA-atgCGTtaagttagataaagc...1497...-----atggcagtcggaggaggct-
D.Ere  tgttctagatccaagagaat...746...-----tctaaacaaaatt---gcaattgATTGTACTTAA-atgCGTtaagttagtttaagc...1543...-----atggcagccggaacggaaa-
D.Ana  tgttctagatcgaagagaat...782...-----gttctataaatt---gcaattgATTGTACTTAAaatgcattaagttagtttaag-...1531...-----agctggaccggatgcaggcc-
D.Gri  tgttctagatcgaagagaat...747...attagttccaacaaatt---acTATTaATTGTACTTAAaatgCGTtaagttagctgta-...2017...-----tagctgcaaatgttgggta
D.Moj  tgttctagatcgaagagaat...876...-----ttccaacaaaatt---acaattaATTGTACTTAAaatgCGTtaagttagttgta-...2174...-----aaacaagaataaaacaaca-
D.Per  tgttctagatcgaagagaat...756...-----aaaaaattacacacaattgATTGTACTTAAaacgaaatttcttaagttta-...1814...tactagaggaaagacgacac-----
D.Pse  tgttctagatcgaagagaat...752...-----aaaaaattacacacaattgATTGTACTTAAaacgaaatttcttaagttta-...1806...-----acgcaaacacgacaccacaa-
D.Wil  tgttctagatcgaagaggat...893...-----acactatttggcaataattaATTGTACTTAAaaaacaacaacaacaac-...1587...-----atgCGtagtagcaaatgtt-
D.Yak  tgttctagatccaagagaat...752...-----tttaaacgaatt---ccaattgATTGTACTTAA-atgCGTtaagttagtttaagc...1525...-----atggcagccggaacgggct-
***** ** * * * * * * * * * *

```

id=51722 gene=FBgn0024963 name=GluClalpha segment=chr3R.15595608_15600321.1 type=IN VIEW

Figure 158: CS=16.4



```

D.Me1 ctgcacaa gtttaaatgaTGAATaCC-TTTATCtat--taactttcgttctactgagtggtaaatgCGGgatat:::--aaacc
D.Sim ctgcacta gtttaaatgaTGAATaCC-TTTATCtat--taactttcgttctactgagtggtaaatgCGGgatat:::--aaaca
D.Sec ctgcacta gtgtaaatgaTGAATaCC-TTTATCtat--taactttcgttctactgagtggtaaatgCGGgatat:::--aaaca
D.Ere atgcaaca gtttaaatgaTGAATaCC-TTTATCtat--taactttcgttctactgagtggcaaatgCGGgatat:::--aacca
D.Ana gtaattgt gtttatatgaTGAATaCCTTtTATCtat--taactttcgttctactgagtggaaaatgCGGgagaa:::--aacac
D.Per gttaaaat atttacaatgaTGAATaCCTTtTATCtat--taactttcgttctactgagttagaaaatgCGGgagaa:::--agact
D.Pse gttaacat atttacatgaTGAATaCCTTtTATCtat--taactttcgttctactgagttagaaaatgCGGgagaa:::--agacc
D.Vir ttaaaatac ttttagatgaTGAATaCCTTtTATCtattataactttcgttctactgagttagaaaatgCGGgagaa:::caacgaaaattaaccaaaggatactgatcaaataaatc
D.Wil acaactaa ttttatatgaTGAATaCCTTtTATCtat--taactttcgttctactgagttagaaaatgCGGgagaa:::--aaatc
D.Yak ctgcagta gtttaaatgaTGAATaCC-TTTATCtat--taactttcgttctactgagtggtaaatgCGGgatat:::--aacca
* ** ***** *

```

id=29984 gene=FBgn0082952 name=snoRNA:Me18S-A1061 segment=chr2R.10510547.10510622.1 type=EN

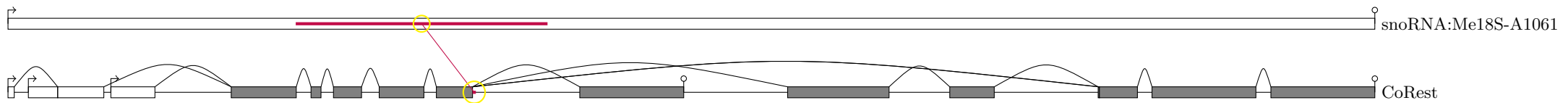
```

D.Me1 aaagacag gtgacggcgacaactctGATGAAGGccATTtGgctggacatgtacaccgagc...823...tcatccccgtag tttcctc
D.Sim gaagacag gtgacggcgacaacctGATGAAGGccATTtGgctggacatgtacaccgagc...848...tcatccccgtag tttccctc
D.Sec gaagacag gtgacggcgacaacctGATGAAGGccATTtGgctggacatgtacaccgagc...844...tcatccccgtag tttccctc
D.Ere gaagacag gtgacggcgacaacctGATGAAGGccATTtGgctggacatgtacaccgagc...854...ctgtccccgtag tttctctc
D.Ana gaagacag gtgacggcgaccacttGATGAAGGccATTtGgctggacatgtacaccgagc...1073...ttatttcttag tttcactg
D.Per gaaaacag gtgatggcgcgatctGATGAAGGccATTtGgctggacatgtacaccgagc...1171...tctcttggcag tttctctg
D.Pse gaaaacag gtgatggcgcgatctGATGAAGGccATTtGgctggacatgtacaccgagc...1173...tctcttggcag tttctctg
D.Vir gaaaacag gtgatggcgacaactctGATGAAGGccATTtGgctggacatgtacactgaac...1084...ggcgacaacag tttccctg
D.Wil gaaaacag gtgatggcgacaactctGATGAAGGccATTtGgctggacatgtacactgaac...1309...ttatatgaacag tttcgtta
D.Yak gaagacag gtgacggcgacaacctGATGAAGGccATTtGgctggacatgtacaccgagc...862...cttatccccgtag tttccctc
* ** ** *

```

id=58116 gene=FBgn0030052 name=CG12065 segment=chrX.8478957.8479842.1 type=IN

Figure 159: CS=10



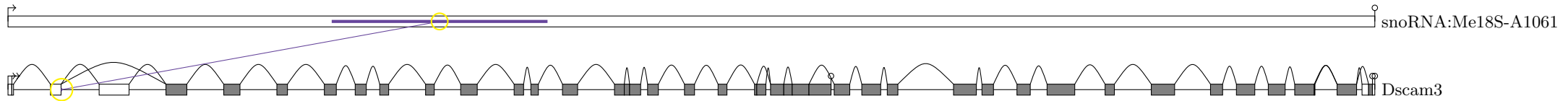
D. Mel	ctgcaca-----A	GTTTAAATGATGAATACC	TTTAT	ctat--taactttcgttctactgagtggtaaatgcggata:::--	-----aaacc
D. Sim	ctgca-----CTA	GTTTAAatGATGAATACC	TTTAT	ctat--taactttcgttctactgagtggtaaatgcggata:::--	-----aaaca
D. Sec	ctgcactagtgtaaat--	GATGAATACC	TTTAT	ctat--taactttcgttctactgagtggtaaatgcggata:::--	-----aaaca
D. Ere	atgcaacagttaaact--	GATGAATACC	TTTAT	ctat--taactttcgttctactgagtggcaaatgcggata:::--	-----aacca
D. Ana	gtaattgtgtttatat--	GATGAATACCTTTTAT	TTTAT	ctat--taactttcgttctactgagtggaaaatgcggaga:::--	-----aacac
D. Per	gttaaaatatttaca--	TGATGAATACCTTTTAT	TTTAT	ctat--taactttcgttctactgagttagaaaatgcggaga:::--	-----agact
D. Pse	gttaacatatttaca--	TGATGAATACCTTTTAT	TTTAT	ctat--taactttcgttctactgagttagaaaatgcggaga:::--	-----agacc
D. Vir	-----ttaaatac	TTTTAGATGATGAATACCTTTTAT	TTTAT	ctattataactttcgttctactgagttagaaaatgcggaga:::--	caacgaaaattaacaaaaggatcactgatcaaatcaatc
D. Wil	-----acaactaat--	TTTTATGATGAATACCTTTTAT	TTTAT	ctat--taactttcgttctactgagttagaaaatgcggaga:::--	-----aatc
D. Yak	-----ctgcagTA	GTTTAAatGATGAATACC	TTTAT	ctat--taactttcgttctactgagtggtaaatgcggata:::--	-----aacca
		*****	*****	*****	*

id=29984 gene=FBgn0082952 name=snoRNA:Me18S-A1061 segment=chr2R.10510547.10510622.1 type=EN

D. Mel	aTGAcaAG	GTAaTTATCTGTTaGAACT	agctaagcgaagcaaga---	...964...	-gttatttttcag	ataatcgc
D. Sim	aTGAcaAG	GTAaTTATCTgTTAGAACTAG	ctaagcgaagcaagaga---	...948...	-gttatttttcag	ataatcgc
D. Sec	aTGAcaAG	GTAaTTATC	-----tgtag--aactagctaagcga---	...929...	-gttatttttcag	ataatcgc
D. Ere	aTGAcaAG	GTAaTTATC	-----tgtag--aactagctaagcga---	...1015...	-gttatttttcag	ataatcgc
D. Ana	aTGAcaAG	GTAaTTATC	-----tgtag--aactagctaagcga---	...724...	-gttatt-tttcag	atgatcgc
D. Per	aTGATAAG	GTAaTTATTG	-----ggcaga--aagctgcctttgt---	...558...	-ttattccttcag	atgatcgc
D. Pse	aTGATAAG	GTAaTTATTG	-----ggcaga--aagcagcctttgt---	...527...	-ttattccttcag	atgatcgc
D. Vir	aTGAcaAG	GTAaTTATCAgTTAGAA	-----cttagcacaacaacaac---	...2311...	-atatttttcag	ataatcgc
D. Wil	aTGATAAG	GTAaTTATCATTTAGA	-----ctatctattcaagaatgag---	...1093...	-cgattccttcag	ataatcgc
D. Yak	aTGAcaAG	GTAaTTATCTgTTAGAACTA	gtaagcgaagcaagag---	...1003...	-gttatttttcag	ataatcgc
	*** **	*****			* *****	** *****

id=58563 gene=FBgn0261573 name=CoRest segment=chrX.19418197.19419211.1 type=IN

Figure 160: CS=14.5



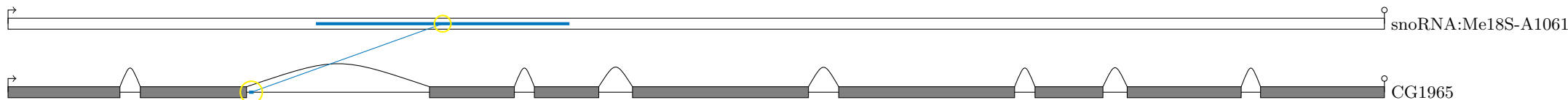
D.Mel	ctgcacaa	gtttaaata	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gtaaatg	cgata:::-----	aaacc
D.Sim	ctgcacta	gtttaaata	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gtaaatg	cgata:::-----	aaaca
D.Sec	ctgcacta	gtgtaaatga	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gtaaatg	cgata:::-----	aaaca
D.Ere	atgcaaca	gtttaaactga	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gcaaatg	cgata:::-----	aacca
D.Ana	gtaattgt	gtttatatga	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gcaaatg	cgata:::-----	aacac
D.Per	gtttaaata	atttacaatga	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gcaaatg	cgata:::-----	agact
D.Pse	gttaacat	atttacaatga	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gcaaatg	cgata:::-----	agacc
D.Vir	ttaaatac	ttttaga	TGATGAATACC	TTTAT	ctattataactttc	gtttctactgagtg	gcaaatg	cgata:::caacg	aaaattaaccaaaggatactgatcaaataaatc
D.Wil	acaactaa	ttttatatga	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gcaaatg	cgata:::-----	aaatc
D.Yak	ctgcagta	gtttaaata	TGAATACC	TTTAT	ctatt--aactttc	gtttctactgagtg	gtaaatg	cgata:::-----	aacca
			**	**	*****	*****	*	*****	*

id=29984 gene=FBgn0082952 name=snoRNA:Me18S-A1061 segment=chr2R.10510547.10510622.1 type=EN

D.Mel	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1049...	tgtatccaacag	cgactaaa
D.Sim	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1058...	tgcaccaacag	cgactaaa
D.Sec	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1046...	tgcaccaacag	cgactaaa
D.Ere	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1004...	tgcaccagcag	cgactaaa
D.Ana	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1146...	caacatcagtg	gaactaaa
D.Per	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...924...	catcagaggcag	caatggca
D.Pse	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...926...	catcagaggcag	caatggca
D.Vir	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...993...	aggaagaagcag	caacaaaa
D.Wil	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1314...	ccacaacagcaa	caactaaa
D.Yak	a TAA c GAG	GTA at TTCA	ctgaatgattcg	cagttttc---...1086...	tgcaccaacag	cgactaaa
	*****	*****	*****	*	**	*

id=75757 gene=FBgn0261046 name=Dscam3 segment=chr3R.13328672.13329761.-1 type=I5

Figure 163: CS=10



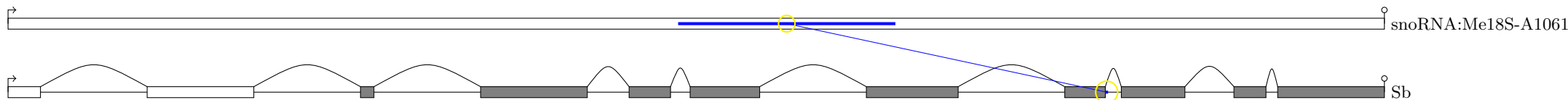
D. Mel	---ctgcacAA	GTT	taAATGATGA	atACC	TtTATC	tat--taactttcgttctactgagtggtaa	atgcggat	at:::-----aaacc
D. Sim	---ctgcactA	GTT	taAATGATGA	atACC	TtTATC	tat--taactttcgttctactgagtggtaa	atgcggat	at:::-----aaaca
D. Sec	---ctgcacta	gtgta	AATGATGA	atACC	TtTATC	tat--taactttcgttctactgagtggtaa	atgcggat	at:::-----aaaca
D. Ere	atgcaacagt-	ttaac	--TGATGA	atACC	TtTATC	tat--taactttcgttctactgagtggcaa	atgcggat	at:::-----aacca
D. Ana	--gtaattgtg	tttata	--TGATGA	atACCT	TtTATC	tat--taactttcgttctactgagtggaaa	atgcggagaa	at:::-----aacac
D. Per	--gttaaata	tttac	--ATGATGA	atACCT	TtTATC	tat--taactttcgttctactgagttagaaa	atgcggagaa	at:::-----agact
D. Pse	--gttaacata	tttac	--ATGATGA	atACCT	TtTATC	tat--taactttcgttctactgagttagaaa	atgcggagaa	at:::-----agacc
D. Vir	---ttaaatac	tttta	GATGATGA	atACCT	TtTATC	tattataactttcgttctactgagttagaaa	atgcggagaa	at:::caacgaaaattaacaaaaggatactgatcaa
D. Wil	---acaactaat	tttat	--ATGATGA	atACCT	TtTATC	tat--taactttcgttctactgagttagaaa	atgcggagaa	at:::-----aatc
D. Yak	---ctgcagtA	GTT	taAATGATGA	atACC	TtTATC	tat--taactttcgttctactgagtggtaa	atgcggat	at:::-----aacca
		*	*****	*****	*****	*****	*****	*

id=29984 gene=FBgn0082952 name=snoRNA:Me18S-A1061 segment=chr2R.10510547.10510622.1 type=EN

D. Mel	actttgtG	GTAAGGT	taTTATTATT	cAATT	cttctacaataataaccg	ttt...563...tctgtccccag	ctagtgg
D. Sim	actttgtG	GTAAGGT	taTTATTATT	cAATT	cttctacaataataaccg	ttt...567...tctgtccccag	ctagtgg
D. Sec	actttgtG	GTAAGGT	taTTATTATT	caat	ttctctacaataata	-----...540...tctgtccccag	ctagtgg
D. Ere	actttgtG	GTAAGGT	taTTATTATT	tcaat	ttctctacaataa	-----...575...cctgtccccag	ctagtgg
D. Ana	actttgtG	GTAAGGT	taTTATTATT	ctcaat	ttctctacaataa	-----...352...ctgtccccag	ctagtgg
D. Per	actttgtG	GTAAGGT	taTTATTATT	tcaat	ttttctcacaccatt	-----...297...tggtccattag	ctgtgg
D. Pse	actttgtG	GTAAGGT	taTTATTATT	tcaat	ttttctcacaccatt	-----...300...tggtccattag	ctgtgg
D. Vir	actttgtG	GTAAGGT	taTTATTATT	caa	-tttctacaaaaaaca	-----...594...tccaaaaccag	ctgtgt
D. Wil	actttgtG	GTAAGGT	taTTATTATT	tcaat	ttttctcacaccaa	-----...434...taccgcttag	ttgtgt
D. Yak	actttgtG	GTAAGGT	taTTATTATT	cAATT	cttctacaataataaccg	ttt...448...cctgtccccag	ctagtgg
		*****	*****	*** ** *	*** *	**	* ** **

id=87602 gene=FBgn0037466 name=CG1965 segment=chr3R.2893812.2894429.1 type=IN

Figure 164: CS=15.6



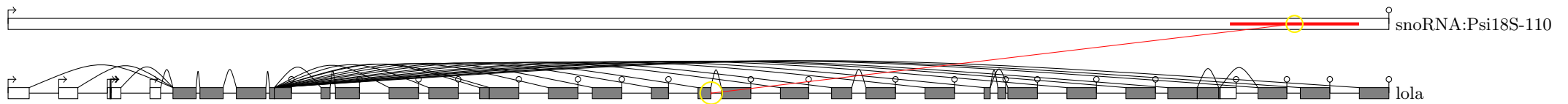
D.Me1	ctgcacaa	gtttaa	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtgg	taaatgc	ggatata	tttttct	gattcata	-----	aaaacc-	
D.Sim	ctgcacta	gtttaa	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtgg	taaatgc	ggatata	tttttct	gattcata	-----	aaaca-	
D.Sec	ctgcacta	gtgtaa	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtgg	taaatgc	ggatata	tttttct	gattcata	-----	aaaca-	
D.Ere	atgcaaca	gtttaa	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtgg	caaatgc	ggatata	tttttct	gatacatt	-----	aaacca-	
D.Ana	gtaattgt	gtttat	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtgg	aaaaatg	cggagaa	tattcct	gatatttat	caac:::	aaaacac	
D.Per	gttaaaat	atttac	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtga	aaaaatg	cggagaa	atttact	ga-----	atcaa:::	agact--	
D.Pse	gttaacat	atttac	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtga	aaaaatg	cggagaa	atttact	ga-----	atcaa:::	agacc--	
D.Vir	ttaaatac	ttttag	atgatga	atacc-ttt	atctattata	ACTTTCGT	CTACT	tgagtga	aaaaatg	cggagaa	tttaact	ga-----	aatag:::	acgaaa	
D.Wil	acaactaa	ttttat	atgatga	atacc--	CTTTTA	CTAT	taACTTTCGT	CTACT	tgagtga	aaaaatg	cggagaa	tttaact	ga-----	aaaca:::	aaac--
D.Yak	ctgcagta	gtttaa	atgatga	atacc-ttt	atctatta-	ACTTTCGT	CTACT	tgagtgg	taaatgc	ggatata	tttctct	gatacata	-----	aaacca-	
		* **	*****	** * * *	*****	*****	* * * * *	*****	* * * *	*****	*****	*****	*****	* *	

id=29984 gene=FBgn0082952 name=snoRNA:Me18S-A1061 segment=chr2R.10510547.10510622.1 type=EN

D.Me1	gTGGACGA	gtGAGT	-----	ggatcag	cccaaac	--cggac	----	...37...	ttccatt	gcag	cctgctca
D.Sim	gTGGACGA	gtGAGT	-----	ggatcag	cccaaac	--cggac	----	...37...	ttccatt	gcag	cctgctca
D.Sec	gTGGACGA	gtGAGT	-----	ggatcag	cccaaac	--cggac	----	...37...	ttccatt	gcag	cctgctca
D.Ere	gTGGACGA	gtGAGT	-----	ggatcag	cccaaac	--cggac	----	...43...	ttccttt	gcag	cctgctca
D.Ana	gTGGACGA	gtGAGT	-----	gtgaatg	aatggg	cagtggc	----	...67...	ttcctcc	ag	cctgctca
D.Per	gTGGACGA	gtGAGT	-----	atccatt	ccgagtc	--cgagt	----	...43...	attccg	ctccag	cctgctca
D.Pse	gTGGACGA	gtGAGT	-----	atccatt	ccgagtc	--cgagt	----	...43...	attccg	ctccag	cctgctca
D.Vir	gTGGACGA	gtGAGT	-----	agcaacc	cataca	actgac	----	...60...	ctctatt	gcag	tctgctca
D.Wil	gTGGACGA	gtGAGTGGT	TGGAAG	tagtag	tagta--	gtgatt	cctt...	...26...	ccgtttt	gcag	tctgctca
D.Yak	gTGGACGA	gtGAGT	-----	ggatcag	cccaaac	--cggac	----	...45...	ttccatt	gcag	cctgctca
	*****	*****		*					***	*****	

id=44206 gene=FBgn0003319 name=Sb segment=chr3R.11969542.11969616.1 type=IN

Figure 168: CS=11.5



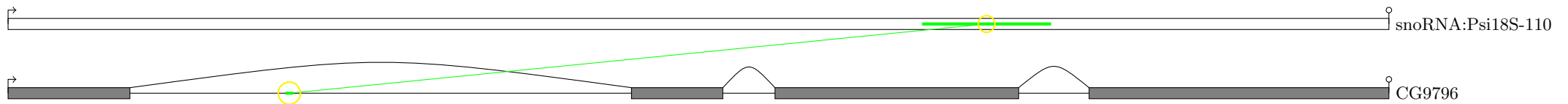
D. Mel	gaccctag	aaggcgctttaa...83...-----ctgtaatt-gcctagccacac	TTC	ACTG	att	TGTG	acccacactt---	cctaatct	
D. Sim	gaccctag	aaggcgctttaa...83...-----ctgtaact-gcctagccacac	TTC	ACTG	att	TGTG	acccacacta---	cctaatct	
D. Sec	gaccctag	aaggcgctttaa...83...-----ctgtaact-gcctagccacac	TTC	ACTG	att	TGTG	acccacactc---	cctaatct	
D. Ere	gatcctag	gaggcgctttaa...78...-tgttgctgtaact-gcctagc	CACA	TTC	ACTG	att	TGTG	acccacactc---	caaatct
D. Ana	aatactag	acagtagtggcg...90...-----ctgtaaac-tactggccacac	TTC	ACTG	att	TGTG	acccacacttgtt	tccat---	
D. Gri	ttttcac	ttggcgctttaa...84...-----tgtaactcacctagcagcac	TTC	ACTG	att	TGTG	gcccacattc---	ttcaatct	
D. Per	ttccctat	ta-gcgccttaat...86...-----ctgtaatt-gcctagccacac	TTC	ACTG	att	TGTG	acccacacttgaa	actca---	
D. Pse	ttccctat	ta-gcgccttaat...86...-----ctgtaatt-gcctagccacac	TTC	ACTG	att	TGTG	acccacacttgaa	actaatct	
D. Wil	atcaatat	tttgcaattcaa...86...-----ctgtaatt-gcctagcaaac	TTC	ACTG	att	TGTG	gcccacaccatt	cacactct	
D. Yak	gatcgtag	caggcgctttaa...77...gtgttgctgtaact-gcctag	CCACA	TTC	ACTG	att	TGTG	acccacactc---	caaatct
		*	*	*****	** **	*****	*****		

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D. Mel	c	ATATCAG	g	TGAG	----	t-agtatccatgatgtgata...139...cgtatccccag	atatgaat	
D. Sim	c	ATATCAG	g	TGAG	----	tgagtatccacgatgtgat...109...cgtatcctccag	atatgaat	
D. Sec	c	ATATCAG	g	TGAG	----	tgagtatccacgatgtgat...103...cgtatccccag	atatgaat	
D. Ere	c	ATATCAG	g	TGAG	t	TGTG	tatatgtcgagtcga-tata...138...ccccgccccag	atatgaat
D. Ana	c	ATATCAG	g	TGAG	----	tgcggcgctatcattcttt...83...atcttctcttag	atatgaat	
D. Gri	c	ATATCAG	g	TGAG	----	ttgtggcaccttatttgg...109...tcttctacgtag	atatgaat	
D. Per	c	ATATCAG	g	TGAG	----	tgtcgggcataccatgca...35...acgtttccctag	atatgaat	
D. Pse	c	ATATCAG	g	TGAG	----	tgtcgggcataccatgca...35...acgtttccctag	atatgaat	
D. Wil	c	ATATCAG	g	TGAG	----	agatgatgactatatgta...92...cttatactttag	atatgaat	
D. Yak	c	ATATCAG	g	TGAG	T	TGG	-atatagtcagttggagtgt...103...cgtatccccag	atatgaat
		*****	*****			**	*****	

id=122945 gene=FBgn0005630 name=lola segment=chr2R.6403164.6403339.-1 type=IN

Figure 169: CS=14.8



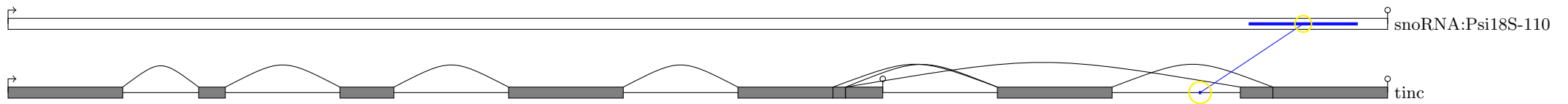
D.Mel	gaccctag	aaggcgctttaa...	51..gataaatcgtgatcactgaa	CCATTgg	TGTTGCTGT	-aattgcctagccacacttcactgattt	gtgaccacactt---	cctaatct
D.Sim	gaccctag	aaggcgctttaa...	51..gataaatcgtgatcactgaa	CCATTgg	TGTTGCTGT	-aactgcctagccacacttcactgattt	gtgaccacacta---	ccaaatct
D.Sec	gaccctag	aaggcgctttaa...	51..gataaatcgtgatcactgaa	CCATTgg	TGTTGCTGT	-aactgcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
D.Ere	gaccctag	aaggcgctttaa...	51..gataaatcgtgatcactgaa	CCATTgg	TGTTGCTGT	-aactgcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
D.Ana	aatactag	acagtagtggcg...	58..gaagaatgctgatcactgaa	CCATTgg	TGTTGCTGT	-aaactactggccacacttcactgattt	gtgaccacactt	tccat---
D.Gri	tttttcac	ttggcgctttaa...	51..agataaatgtgaccactgaa	CCATTgg	TGTTGCTGT	-aactcacctagcagcacttcactgattt	gtggccacattc---	ttcaatct
D.Per	ttccctat	ta-gcgcttaaat...	54..agaaattgctgatcactgaa	CCATTgg	TGTTGCTGT	-aattgcctagccacacttcactgattt	gtgaccacactt	gaaactca---
D.Pse	ttccctat	ta-gcgcttaaat...	54..agaaattgctgatcactgaa	CCATTgg	TGTTGCTGT	-aattgcctagccacacttcactgattt	gtgaccacactt	gaaactca---
D.Wil	atcaatat	tttgacttcaa...	55..aatttgat-tgaccactgaa	CATTgg	TGTTGCTGT	-aattgcctagcaacacttcactgattt	gtggccacaccatt	caactct
D.Yak	gatcgtag	caggcgctttaa...	51..gataaatgtgatcactgaa	CCATTgg	TGTTGCTGT	-aactgcctagccacacttcactgattt	gtgaccacactc---	caaaatct
		*	*	**	*****	*	**	*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D.Mel	ccgctaag	gtgagtttccgg...	189...--agagctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----catttcgagagttaacgaa...	1767...ttctttctgcag	gtgccaat
D.Sim	ccgctaag	gtgagtttccgg...	191...--agagctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----catttcgagagttaacgaa...	1677...ttctttctgcag	gtgccaat
D.Sec	ccgctaag	gtgagtttccgg...	191...--agagctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----catttcgagagttaacgag...	1649...ttctttctgcag	gtgccaat
D.Ere	ctgctaag	gtgagtttccgg...	198...--aaagctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----catttcgagagttaacgaa...	1879...tctgctgcag	gtgccaat
D.Ana	ctgccaag	gtgagtttccgg...	152...--aaagctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----cattaatgagttgaacgaa...	1525...ttatgctgtag	gttctctgt
D.Gri	ctgctaag	gtaag-tcttgca...	157...gggaaaatgta	-----agaagaag	TACAGCAACAAGTGG	cgcgccccataaaatgagtt	-----1372...ttgtttcaccag	gtgcctat
D.Per	ctgccaag	gtgagtttccgg...	201...--ggtgctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----cacgggttgactgaactgta...	1923...gttccatctcag	gtgccaat
D.Pse	ctgctaag	gtgagtttccgg...	205...--ggtgctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----cacgggttgactgaactgta...	1969...gttccatctcag	gtgccaat
D.Wil	cggtcaag	gtaagtttctgc...	245...-----cgcccttttttccaaaccg	-----	ACAGCAACAAGTGG	acatgccccgaataatagtt	-----1820...ggcttttccag	gtgcccgt
D.Yak	ccgctaag	gtgagtttccgg...	192...--aaagctgcacccttttctg	-----g	GCAGCAACAAGTGG	-----catttcgagagttaacgaa...	1836...tctgctctacag	gtaccat
		* ** **	** **	*	*****	*	**	** ** ** *

id=63643 gene=FBgn0038149 name=CG9796 segment=chr3R.9225367.9227400.-1 type=IN

Figure 170: CS=11.5



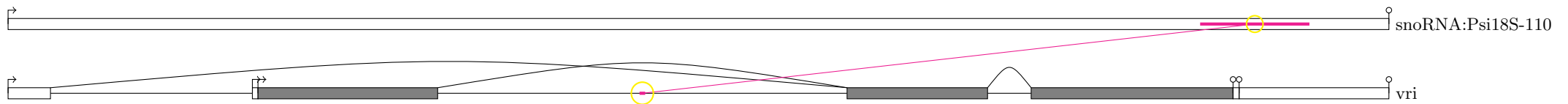
D.Mel	gaccctag	aaggcgctttaa...85...	gtaattgcctagccacactt	CACTGATTGTG	accacacactt---	cctaatct
D.Sim	gaccctag	aaggcgctttaa...85...	gtaactgcctagccacactt	CACTGATTGTG	accacacacta---	ccaaatct
D.Sec	gaccctag	aaggcgctttaa...85...	gtaactgcctagccacactt	CACTGATTGTG	accacacactc---	ccaaatct
D.Ere	gatcctag	gaggcgctttaa...85...	gtaactgcctagccacactt	CACTGATTGTG	accacacactc---	ccaaatct
D.Ana	aatactag	acagtagtggcg...92...	gtaactactggccacactt	CACTGATTGTG	accacacacttggt	ttcat---
D.Gri	ttttcac	ttggcgctttaa...86...	taactcacctagcagcactt	CACTGATTGTG	gccacattc---	ttcaatct
D.Per	ttccctat	ta-gcgccttaat...88...	gtaattgcctagccacactt	CACTGATTGTG	accacacacttgaa	actca---
D.Pse	ttccctat	ta-gcgccttaat...88...	gtaattgcctagccacactt	CACTGATTGTG	accacacacttgaa	actaatct
D.Wil	atcaatat	tttgacttcaa...88...	gtaattgcctagcaacactt	CACTGATTGTG	gccacaccatt	caactct
D.Yak	gatcgtag	caggcgctttaa...85...	gtaactgcctagccacactt	CACTGATTGTG	accacacactc---	ccaaatct
		*	*	*	** ** *	*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L_831870_832008_-1 type=EN

D.Mel	aagcgc	gtaagtggagga...338...	tgtttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacatgggg...	145...	tttcaactgcag	gaggggcc
D.Sim	aagcgc	gtaagtgaagga...339...	tgtttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacatgggg...	147...	tttcaactgcag	gaggggcc
D.Sec	aagcgc	gtaagtggagga...311...	tgcttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacatgggg...	122...	tttcaactgcag	gaggggcc
D.Ere	aagcgc	gtaagtggagga...430...	tgtttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacagggg...	161...	tttcaactgcag	gaggggcc
D.Ana	aagcgc	gtaagttggaat...427...	tgtttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacagccac...	113...	tttcaactgcag	accgagac
D.Gri	aagcgc	gtaagtgtgaaa...826...	tgcttgctggtatgagacag	CATAAATCAGTG	ccagggtcagtgccaggga...	162...	tttcaactgcag	gcgacgaa
D.Per	aggcgc	gtaagtgtgaaa...459...	tgtttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacagaaca...	148...	tttcaactgcag	acacggcc
D.Pse	aggcgc	gtaagtgtgaaa...459...	tgtttgctggtatgagacag	CATAAATCAGTG	ccagggccacagacagaaca...	148...	tttcaactgcag	acacggcc
D.Wil	aagcgc	gtaagtcgcaa...231...	tgtttgctggtatgagacag	CATAAATCAGTG	gtggcccacagagaagtcac...	166...	tttcaactccag	acaatcat
D.Yak	acgcgc	gtaagtcgagga...811...	tgtttgctttatgagacag	CATAAATCAGTG	ccagggccacagacatgggg...	124...	tttcaactgcag	gaggggcc
		** ** *	*****	** ** *	*****	** ** *	*****	***

id=111467 gene=FBgn0038554 name=tinc segment=chr3R_13694947_13695505_1 type=IN

Figure 171: CS=10



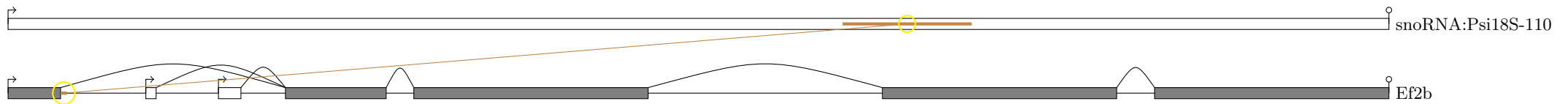
D.Mel	gaccctag	aaggcgctttaa...80...--ttgctgtaatt-gcctagcca	CACTTCACTGATT	tgtgaccacactt---	cctaatct
D.Sim	gaccctag	aaggcgctttaa...80...--ttgctgtaact-gcctagcca	CACTTCACTGATT	tgtgaccacacta---	ccaaatct
D.Sec	gaccctag	aaggcgctttaa...80...--ttgctgtaact-gcctagcca	CACTTCACTGATT	tgtgaccacactc---	ccaaatct
D.Ere	gaccctag	aaggcgctttaa...80...--ttgctgtaact-gcctagcca	CACTTCACTGATT	tgtgaccacactc---	ccaaatct
D.Ana	aatactag	acagtagtggcg...85...tggtgctgtaaac-tactggc	CACACTTCACTGATT	tgtgaccacacttgtt	tccat---
D.Gri	ttttcac	ttggcgctttaa...81...--tgctgtaactcacctagcag	CACTTCACTGATT	tgtggccacattctt-	--caatct
D.Per	ttccctat	ta-gcgccttaat...83...--ttgctgtaatt-gcctagcca	CACTTCACTGATT	tgtgaccacacttgaa	actca---
D.Pse	ttccctat	ta-gcgccttaat...83...--ttgctgtaatt-gcctagcca	CACTTCACTGATT	tgtgaccacacttgaa	actaatct
D.Wil	atcaatat	tttgacattcaa...83...--ttgctgtaatt-gcctagcaa	CACTTCACTGATT	tgtggccacacccatt	cacactct
D.Yak	gatcgtag	caggcgctttaa...80...--ttgctgtaact-gcctagcca	CACTTCACTGATT	tgtgaccacactc---	caaatct
	*	*	***** ** ** *****	*****	

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L_831870_832008_-1 type=EN

D.Mel	ca-----ataaat	gtaggtgttcaa...499...actgtaaatgccaattcgat	GGTCA	tgGTGA	GGTG	--agtgagaagaaagagagtg...819...tttcattgcag	ttccccgc----
D.Sim	ca-----ataaat	gtaggtgttcaa...497...actgtaaatgccaattcgat	GGTCA	tgGTGA	GGTG	--agtgagaagaaagagagtg...771...tttcattgcag	ttccccgc----
D.Sec	ca-----ataaat	gtaggtgttcaa...500...actgtaaatgccaattcgat	GGTCA	tgGTGA	GGTG	--agtgagaagaaagagagtg...773...tttcattgcag	ttccccgc----
D.Ere	ca-----ataaat	gtacgtgttcta...523...actgtaaatgccaattcgat	GGTCA	tgGTGA	GGTG	--agtgagaagaaagagagtg...861...tttcattgcag	ttccccgc----
D.Ana	ca-----acagta	gcagcaacaaca...1748...actgtaaatgccaattcgat	GGTCA	tgGTGA	GGTGTG	agagaatggggtgcagggga...849...--aatttttg	gtaattttcca
D.Gri	ca-----acaaca	gaagtcgttata...461...actgcaaatgccaattcgat	GGTCA	cgGTGA	GGTG	--aggcgacaacgagacaaaga...1336...tattaatttaag	tttactgt----
D.Per	aaggagtgcgagcaat	gtag-----...424...actgtaaatgccaattcgat	GGTCA	cgGTGA	GGTG	--agggtgagacgatgcgaccg...734...ctctcattccag	ttgcacgc----
D.Pse	aaggagtgcgagcaat	gtag-----...424...actgtaaatgccaattcgat	GGTCA	cgGTGA	GGTG	--agggtgagacgatgcgaccg...724...ctctcattccag	ttgcacgc----
D.Wil	ca-----agcaat	gtaattaataaaa...695...actgtaaatgccaattcgat	GGTCA	cgGTGA	GGTG	--agggtgagagacccaaaacga...875...attaccttcag	ttggacgt----
D.Yak	ca-----ataaat	gtaggtgttcta...531...actgtaaatgccaattcgat	GGTCA	tgGTGA	GGTG	--agtgagaagaaagagagtg...786...ttttaattgcag	ttccccgc----
	*	*	**	**** *****	*****	**	** *

id=37562 gene=FBgn0016076 name=vri segment=chr2L_5306167_5307564_1 type=IN

Figure 172: CS=10



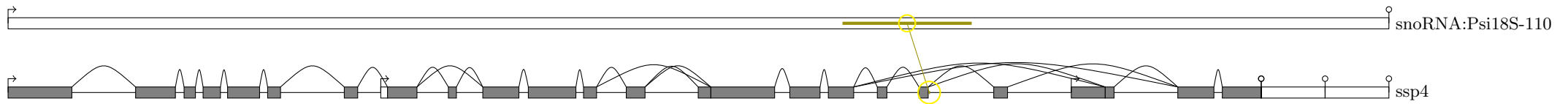
D.Mel	gaccctag	aaggcgctttaa...44...-agtgccagataaaa-tcgtgat---	CACTgaACCATTGG	tgttgctgtaatt-gcctagccacacttcactgattt	gtgaccacactt---	cctaatct
D.Sim	gaccctag	aaggcgctttaa...44...-agtgccagataaaa-tcgtgat---	CACTgaACCATTGG	tgttgctgtaact-gcctagccacacttcactgattt	gtgaccacacta---	ccaaatct
D.Sec	gaccctag	aaggcgctttaa...44...-agtgccagataaaa-tcgtgat---	CACTgaACCATTGG	tgttgctgtaact-gcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
D.Ere	gaccctag	gaggcgctttaa...43...-tagtgccagataaaa-tcgcga---	TCACTgaACCATTGG	tgttgctgtaact-gcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
D.Ana	aatactag	acagtagtggcg...51...-ggcgccagaagaa-tgtcgat---	CACTgaACCATTGG	tgttgctgtaaac-tactggccacacttcactgattt	gtgaccacacttgtt	tccat---
D.Gri	ttttcac	ttggcgctttaa...44...-tagcgctagataaaa-tgtgac---	CACTgaACCATTGG	tgttgctgtaactcacctagcagcacttcactgattt	gtgcccacattc---	ttcaatct
D.Per	ttccctat	ta-gcgccttaat...46...-ggcgccagagaaattgtcga---	TCACTgaACCATTGG	tgttgctgtaatt-gcctagccacacttcactgattt	gtgaccacacttgaa	actca---
D.Pse	ttccctat	ta-gcgccttaat...46...-ggcgccagagaaattgtcga---	TCACTgaACCATTGG	tgttgctgtaatt-gcctagccacacttcactgattt	gtgaccacacttgaa	actaatct
D.Wil	atcaatat	tttgcaattcaa...47...-gtagataaaa-t-ttgattgac	CACTgaACCATTGG	tgttgctgtaatt-gcctagcaacacttcactgattt	gtggcccacaccatt	caactct
D.Yak	gatcgtag	caggcgctttaa...43...-tagtgccagataaaa-ttgtga---	TCACTgaACCATTGG	tgttgctgtaact-gcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
	*	*	** **	** * * * * *	** **	*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D.Mel	cCAAaaTG	GTaGGTG	ccaaagtccgaaataata---g...143...tatggtgaaatg	caagacaa
D.Sim	cCAAaaTG	GTaGGTG	cccaatgtccgtaataataa----...149...ggtggtgaaatg	caagacaa
D.Sec	cCAAaaTG	GTaGGTG	cccaatgtccgtaataataa----...138...ggtggtgaaatg	caaggaat
D.Ere	cCAAaaTG	GTaGGTG	ccaaagtccgaaataata---gc...123...ggtggtgaaata	caagacaa
D.Ana	cCAAaaTG	GTaGGTG	---caacttatggaaataactg-...187...cgttggtgaaatg	caagacaa
D.Gri	cCAAaaTG	GTaGGTG	ccaataatccacattaatac----...176...actgatgaaatg	caagacaa
D.Per	cCAAaaTG	GTaGGTG	---aaataatggataatatttgc...158...tctggtgaaatg	caagacaa
D.Pse	cCAAaaTG	GTaGGTG	---aaataatggataatatttgc...170...tctggtgaaatg	caagacaa
D.Wil	cCAAaaTG	GTaGGTG	---taactaattaaaacaatgca...195...aatggtgaaatg	caagagac
D.Yak	cCAAaaTG	GTaGGTG	ccaaagtccgaaataata---gc...140...ggtggtgaaatg	caagacaa
	*****	*****	** *	* *****

id=119369 gene=FBgn0000559 name=Ef2b segment=chr2L.21681857.21682038.-1 type=IN

Figure 173: CS=12



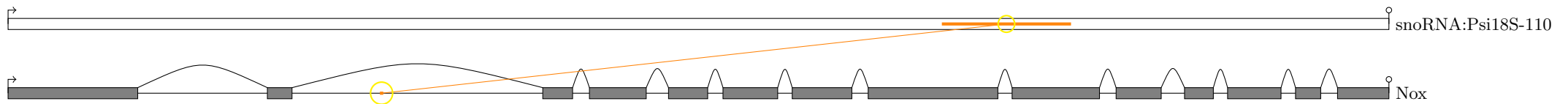
D. Mel	gaccctag	aaggcgctttaa...42...-----ttagtgccagataaatcgtg--	ATCACTgAACCaTTGG	gttgctgtaatt-gcctagccacacttcactgattt	gtgaccacactt---	cctaactc
D. Sim	gaccctag	aaggcgctttaa...42...-----ttagtgccagataaatcgtg--	ATCACTgAACCaTTGG	gttgctgtaact-gcctagccacacttcactgattt	gtgaccacacta---	ccaaatct
D. Sec	gaccctag	aaggcgctttaa...42...-----ttagtgccagataaatcgtg--	ATCACTgAACCaTTGG	gttgctgtaact-gcctagccacacttcactgattt	gtgaccacactc---	caaatct
D. Ere	gaccctag	aaggcgctttaa...42...-----ttagtgccagataaatcgtg--	ATCACTgAACCaTTGG	gttgctgtaact-gcctagccacacttcactgattt	gtgaccacactc---	caaatct
D. Ana	aatactag	acagtagtggcg...46...--taaatggcgccagagaatg--	TCGAtCACTgAACCaTTGG	gttgctgtaaac-tactggccacacttcactgattt	gtgaccacactt	tccat---
D. Gri	tttttcac	ttggcgctttaa...44...-----tagcgctagataaatgtgac---	CACTgAACCaTTGG	gttgctgtaactcacctagcagcacttcactgattt	gtggccacattc---	ttcaatct
D. Per	ttccctat	ta-gcgcttaat...40...-gtacttggcgccagagaaat--	TGTGATCACTgAACCaTTGG	gttgctgtaatt-gcctagccacacttcactgattt	gtgaccacactt	actca---
D. Pse	ttccctat	ta-gcgcttaat...40...-gtacttggcgccagagaaat--	TGTGATCACTgAACCaTTGG	gttgctgtaatt-gcctagccacacttcactgattt	gtgaccacactt	actaatct
D. Wil	atcaatat	tttgacttcaa...47...-----gctagataaatttgattgac	CACTgAACCaTTGG	gttgctgtaatt-gcctagcaacacttcactgattt	gtggccacaccat	cacactct
D. Yak	gatcgtag	caggcgctttaa...37...tgtagttagtgccagataaa---	TGTGATCACTgAACCaTTGG	gttgctgtaact-gcctagccacacttcactgattt	gtgaccacactc---	caaatct
	*	*	** **	*****	** **	*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L_831870_832008_-1 type=EN

D. Mel	ttCCAGaG	GTTGGTGAT--ggataacacgcccacttagt-----	...498...acctgatttcag	agccagcc
D. Sim	ttCCAGaG	GTTGGTGAT--ggataacacgcccacttagt-----	...492...acctgatttcag	agccagcc
D. Sec	ttCCAGaG	GTTGGTGAT--ggataacacgcccacttagt-----	...490...acctgatttcag	agccagcc
D. Ere	ttCCAGaG	GTTGGTGAT--ggataacacgcccacttagt-----	...475...acctgatttcag	agccagcc
D. Ana	ttCCAGaG	GTTGGTGTGG--gtaaaaagtctaagaagttt----	...503...acctgatttcag	agccagcc
D. Gri	ttCCAGaG	GTTGGTG--ctgggtaacaag--tactaagc-----	...592...caatthttacag	agcctgct
D. Per	ttCCAGaG	GTTGGTGATgGTAtaacaca--cacctaattacgt-	...493...acctacttcag	agccagca
D. Pse	ttCCAGaG	GTTGGTGATgGTAtaacaca--cacctaattacgt-	...496...acctacttcag	agccagca
D. Wil	ttCCAGaG	GTTGGTG--ctgggtaacacgcccacttaa-----	...672...ccttccttacag	agccagcc
D. Yak	ttCCAGaG	GTTGGTGATggATAA--cacgcccacttagttctctt...	...496...acctgatttcag	agccagcc
	*****	*****	* * *	* ** **

id=89077 gene=FBgn0022085 name=ssp4 segment=chr2R_13410466_13411004_-1 type=IN

Figure 174: CS=10.8



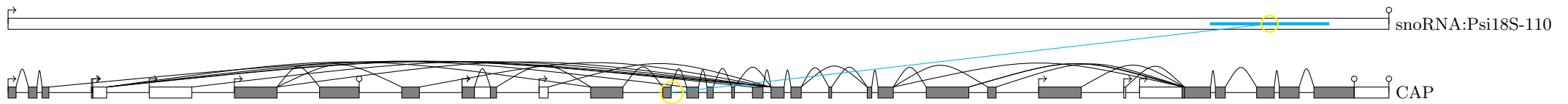
D. Mel	gaccctag	aaggcgctttaa...	54...	aaatcgtgatcactgaacca	TTGGTGTTC	TGTA	Aatt-gcctagccacacttcactgattt	gtgaccacactt---	cctaatct
D. Sim	gaccctag	aaggcgctttaa...	54...	aaatcgtgatcactgaacca	TTGGTGTTC	TGTA	Act-gcctagccacacttcactgattt	gtgaccacacta---	ccaaatct
D. Sec	gaccctag	aaggcgctttaa...	54...	aaatcgtgatcactgaacca	TTGGTGTTC	TGTA	Act-gcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
D. Ere	gaccctag	aaggcgctttaa...	54...	aaatcgtgatcactgaacca	TTGGTGTTC	TGTA	Act-gcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
D. Ana	aactactag	acagtagtggcg...	61...	gaatgctgatcactgaacca	TTGGTGTTC	TGTA	Aac-tactggccacacttcactgattt	gtgaccacactt	tccat---
D. Gri	ttttcac	ttggcgctttaa...	54...	taatgtgaccactgaacca	TTGGTGTTC	TGTA	Actcacctagcagcacttcactgattt	gtggccacattc---	ttcaatct
D. Per	ttcctat	ta-gcgccttaat...	57...	aattgctgatcactgaacca	TTGGTGTTC	TGTA	Aatt-gcctagccacacttcactgattt	gtgaccacactt	actca---
D. Pse	ttcctat	ta-gcgccttaat...	57...	aattgctgatcactgaacca	TTGGTGTTC	TGTA	Aatt-gcctagccacacttcactgattt	gtgaccacactt	actaatct
D. Wil	atcaatat	tttgacttcaa...	57...	tttgattgaccactgaacca	TTGGTGTTC	TGTA	Aatt-gcctagcaacacttcactgattt	gtggccacaccatt	caacactct
D. Yak	gatcgtag	caggcgctttaa...	54...	aaatgtgatcactgaacca	TTGGTGTTC	TGTA	Act-gcctagccacacttcactgattt	gtgaccacactc---	ccaaatct
	*	*			*****		** **	*****	*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D. Mel	cggttaac	gtaagtgtgggt...	299...	atctgcccgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgctgcctcgac...	697...	tgaatcttgcag	ggacgatc
D. Sim	cggttaac	gtaagtgtgggt...	301...	atctgcccgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgctgcctcgac...	707...	tggatcttgcag	ggacgatc
D. Sec	cggttaac	gtaagtgtgggt...	300...	atctgcccgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgctgcctcgac...	718...	tggatcttgcag	ggacgatc
D. Ere	cggttaac	gtaagtgtgggt...	274...	atctgcccgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgctgcctcgac...	690...	tggctcttgcag	ggacgatc
D. Ana	cgtctaac	gtaagtttggaa...	284...	atctgctgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgctgcctcgac...	764...	gggatattacag	cgacgatc
D. Gri	cgactcac	gtaagtaagga...	711...	atctgtttgtatgtaaca	TATA-CAACA	GCTAA	catagtctgcatgccctct...	260...	ttttgctgcag	cgacgatc
D. Per	cgtttaac	gtaagttttgtt...	367...	atctgtttgtatgtaaca	TATA-CAACA	GCTAA	catagtccgcatgcctcgac...	289...	ctctggttacag	cgacgacc
D. Pse	cgtttaac	gtaagttttgtt...	364...	atctgtttgtatgtaaca	TATA-CAACA	GCTAA	catagtctgcatgcctcgac...	289...	ctctggttacag	cgacgacc
D. Wil	cgtttaac	gtaagttcatag...	163...	ttgtgctgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgcatgcctagag...	174...	aactacttgcag	cgatgatc
D. Yak	cggttaac	gtaagtgtgggt...	310...	atctgcccgtgtgtaaca	TATA-CAACA	GCTAA	catagtccgctgcctcgac...	737...	tggatcttgcag	ggacgatc
	** **	*****		** **	*****	*****	** **	*****	*****	** **

id=91656 gene=FBgn0085428 name=Nox segment=chr2R.12198661.12199734.1 type=IN

Figure 175: CS=10.8



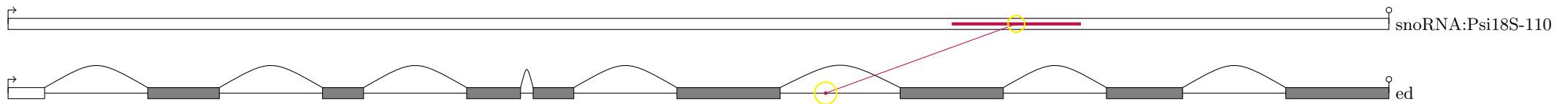
D.Mel	gaccctag	aaggcgctttaa...	81...	tgctgtaatt-gcctagccac	ACTTcACTGATT	gtgaccacactt---	cctaactc
D.Sim	gaccctag	aaggcgctttaa...	81...	tgctgtaact-gcctagccac	ACTTcACTGATT	gtgaccacacta---	ccaatct
D.Sec	gaccctag	aaggcgctttaa...	81...	tgctgtaact-gcctagccac	ACTTcACTGATT	gtgaccacactc---	ccaatct
D.Ere	gaccctag	aaggcgctttaa...	81...	tgctgtaact-gcctagccac	ACTTcACTGATT	gtgaccacactc---	caaatct
D.Ana	aatactag	acagtagtggcg-	88...	tgctgtaaac-tactggccac	ACTTcACTGATT	gtgaccacacttgtt	tccat---
D.Gri	ttttcac	ttggcgctttaa...	82...	-gctgtaactcacctagcagc	ACTTcACTGATT	gtggccacattctt-	--caatct
D.Per	ttccctat	ta-gcgccttaat...	84...	tgctgtaatt-gcctagccac	ACTTcACTGATT	gtgaccacacttgaa	actca---
D.Pse	ttccctat	ta-gcgccttaat...	84...	tgctgtaatt-gcctagccac	ACTTcACTGATT	gtgaccacacttgaa	actaatct
D.Wil	atcaatat	tttgcacttaa-	84...	tgctgtaatt-gcctagcaac	ACTTcACTGATT	gtggccacaccatt	cacactct
D.Yak	gatcgtag	caggcgctttaa...	81...	tgctgtaact-gcctagccac	ACTTcACTGATT	gtgaccacactc---	caaatct
	*	*	*****	** **	*****	*****	*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D.Mel	tgAAGTCA	GTAAGT	atagccg-atgtgggtagggc--...	144...	tgcggtttccag	tctacaaa
D.Sim	tgAAGTCA	GTAAGT	ataaccg-atgtgggtagggc--...	144...	tgcggtttccag	tctacaaa
D.Sec	tgAAGTCA	GTAAGT	atagccg-atgtgggtagggc--...	144...	tgcggtttccag	tctacaaa
D.Ere	tgAAGTCA	GTAAGT	atagccg-atgtgggtagggc--...	151...	tgcggtttccag	tctacaaa
D.Ana	tgAAGTCA	GTAAGT	atagccg-atgttagatggtt--...	153...	tgcggtttccag	tctacaa
D.Gri	tgAAGTCA	GTAAGT	at---caattgtaggtagtcca...	172...	tacggtttacag	tctacaaa
D.Per	tgAAGTCA	GTAAGT	atccatgcaattagg---gacc...	153...	tgcggtttccag	tctacaaa
D.Pse	tgAAGTCA	GTAAGT	atccatgcaattagg---gacc...	153...	tgcggtttccag	tctacaaa
D.Wil	tgAAGTCA	GTAAGT	at---ccaaaagagggttaaga...	165...	aacgggtttccag	tctaccaa
D.Yak	tgAAGTCA	GTAAGT	atagccgtatataggtagg--...	147...	tgcggtttccag	tctacaaa
	*****	*****	*	*****	***	***** *

id=118791 gene=FBgn0033504 name=CAP segment=chr2R.6180945.6181126.1 type=IN

Figure 176: CS=10



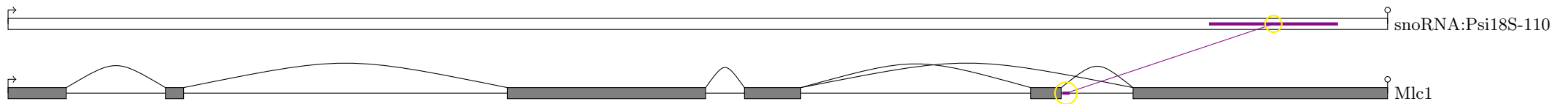
D.Mel	gaccctag	aaggcgctttaa...	55...	aatcgtgatcactgaacat	TGGTg	TTGCTGTAAT	-tgcctagccacacttcactgattt	tgaccacactt---	cctaatct
D.Sim	gaccctag	aaggcgctttaa...	55...	aatcgtgatcactgaacat	TGGTg	TTGCTGTAA	-ctgcctagccacacttcactgattt	tgaccacacta---	ccaaatct
D.Sec	gaccctag	aaggcgctttaa...	55...	aatcgtgatcactgaacat	TGGTg	TTGCTGTAA	-ctgcctagccacacttcactgattt	tgaccacactc---	ccaaatct
D.Ere	gaccctag	aaggcgctttaa...	55...	aatcgtgatcactgaacat	TGGTg	TTGCTGTAA	-ctgcctagccacacttcactgattt	tgaccacactc---	ccaaatct
D.Ana	aatactag	acagtagtggcg...	62...	aatgtcgatcactgaacat	TGGTg	TTGCTGTAA	-actactggccacacttcactgattt	tgaccacacttgtt	tccat---
D.Gri	ttttcac	ttggcgctttaa...	55...	aatgtgaccactgaacat	TGGTg	TTGCTGTAA	-ctcacctagcagcacttcactgattt	tgaccacacttctt	--caatct
D.Per	ttccctat	ta-gcgccttaat...	58...	attgtcgatcactgaacat	TGGTg	TTGCTGTAAT	-tgcctagccacacttcactgattt	tgaccacacttgaa	actca---
D.Pse	ttccctat	ta-gcgccttaat...	58...	attgtcgatcactgaacat	TGGTg	TTGCTGTAAT	-tgcctagccacacttcactgattt	tgaccacacttgaa	actaatct
D.Wil	atcaatat	tttgcaacttcaa...	58...	ttgattgaccactgaacat	TGGTg	TTGCTGTAAT	-tgcctagcaacacttcactgattt	tgaccacacccatt	cacactct
D.Yak	gatcgtag	caggcgctttaa...	55...	aattgtgatcactgaacat	TGGTg	TTGCTGTAA	-ctgcctagccacacttcactgattt	tgaccacactc---	ccaaatct
	*	*			** *****		** ** *****		*****

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D.Mel	cgcagaaa	gtgagtacaaaa...	173...	cgccgatgct----	gatgatttcc	ATTATAtGCAAaGCCA	Attacgagcaattgcaccact...	329...	ttaccocgatag	ttggcagg
D.Sim	cgcagaaa	gtgagtacaaaa...	175...	-gccgatgct----	gatgatttcca	TTATAtGCAAaGCCA	Attacgagcaattgcaccact...	324...	ttaccoccatag	ttggcagg
D.Sec	cgcagaaa	gtgagtacaaaa...	175...	-gccggtgct----	gatgatttcca	TTATAtGCAAaGCCA	Attacgagcaattgcaccact...	301...	ttaccocgatag	tcggcagg
D.Ere	cgcagaaa	gtgagtacaaaa...	158...	-accgattct----	gatgatttcca	TTATAtGCAAaGCCA	Attacgagcaattgcaccact...	539...	ctcttttctag	ttggcagg
D.Ana	tgccgagg	gtgagtacaaa...	97...	-----tgctcgcaggatgatttcca	TTATAtGCAAaGCCA	Attacgagcaattgcaccact...	378...	tccctctctag	ttggagg	
D.Gri	tgccgaga	gtaagtacaaa...	531...	gtagaatgc-----	actgatttcca	TTATAtGCAAaGCCA	Attacgagcaattgcaccact...	216...	ctctgttgcag	ttggacgc
D.Per	tgccgaga	gtgagtatttct...	50...	actcctcgtt----	gatgatttcc	ATTATAtGCAAaGCCA	Attacgagcaattgcaccact...	168...	ctctgtccacag	ttggccga
D.Pse	tgccgaga	gtgagtatttct...	48...	agtccctggt----	gatgatttcc	ATTATAtGCAAaGCCA	Attacgagcaattgcaccact...	171...	ctctgtccacag	ttggccga
D.Wil	tgccgaaa	gtaagtaacaga...	33...	-----ttggttggtcaccgatttcca	ATTATAtGCAAaGCCA	Attacgagcaattgcaccact...	171...	tccctccatag	tcggacgt	
D.Yak	cgccgaaa	gtaagtacaaa...	182...	-gccgatgct----	gatgatttcca	TTATAtGCAAaGCCA	Attacgagcaattgcaccact...	449...	ttaccoccatag	ttggaagg
	** **	** ****			*****		** * *****		** * ** *	

id=17044 gene=FBgn0000547 name=ed segment=chr2L.410040.4100621.1 type=IN

Figure 177: CS=10



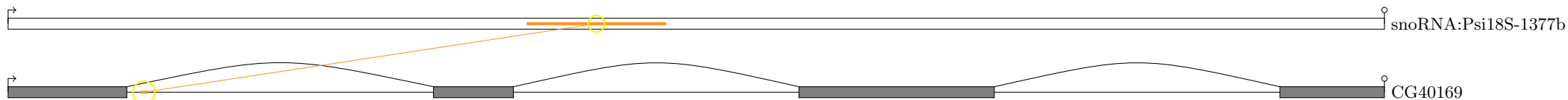
D. Mel	gaccctag	aaggcgctttaa-...81...tgctgtaatt-gcctagccac	ACTTcACTGaTTG	tgaccacactt---	cctaactct
D. Sim	gaccctag	aaggcgctttaa-...81...tgctgtaact-gcctagccac	ACTTcACTGaTTG	tgaccacacta---	ccaatct
D. Sec	gaccctag	aaggcgctttaa-...81...tgctgtaact-gcctagccac	ACTTcACTGaTTG	tgaccacactc---	ccaatct
D. Ere	gatcctag	gaggcgctttaa-...81...tgctgtaact-gcctagccac	ACTTcACTGaTTG	tgaccacactc---	caaatct
D. Ana	aatactag	acagtagtggcg-...88...tgctgtaaac-tactggccac	ACTTcACTGaTTG	tgaccacacttgtt	tccat---
D. Gri	ttttcac	ttggcgctttaa-...82...gctgtaactcacctagcagc	ACTTcACTGaTTG	tgaccacattc---	ttcaatct
D. Per	ttccctat	ta-gcgccttaat...84...tgctgtaatt-gcctagccac	ACTTcACTGaTTG	tgaccacacttgaa	actca---
D. Pse	ttccctat	ta-gcgccttaat...84...tgctgtaatt-gcctagccac	ACTTcACTGaTTG	tgaccacacttgaa	actaatct
D. Wil	atcaatat	tttgcacttcaa-...84...tgctgtaatt-gcctagcaac	ACTTcACTGaTTG	tgaccacaccatt	cacactct
D. Yak	gatcgtag	caggcgctttaa-...81...tgctgtaact-gcctagccac	ACTTcACTGaTTG	tgaccacactc---	caaatct
	*	*	***** ** ** *****	*****	

id=54395 gene=FBgn0083057 name=snoRNA:Psi18S-110 segment=chr3L.831870.832008.-1 type=EN

D. Mel	acTAAACA	GTAAGT	--agggatggagcccatggcca...73...tctactccacag	cattcctc
D. Sim	acTAAACA	GTAAGT	--agggatggagcccatggcca...73...tctactccacag	cattcctc
D. Sec	acTAAACA	GTAAGT	--agggatggagcccatggcca...73...tctactccacag	cattcctc
D. Ere	acTAAACA	GTAAGT	--agggatggagcccatggcca...74...tctactccacag	cattcctc
D. Ana	acTAAACA	GTAAGT	tatcgattgaatttttga-...92...tctattccacag	cattcctc
D. Gri	acTAAACA	GTAAGT	tgctccttgtctctatcog-...56...ctcttctccacag	cattcctt
D. Per	acTAAACA	GTAAGT	-actgaatgtattgtattgat-...100...tctactccacag	cattcctc
D. Pse	acTAAACA	GTAAGT	-actgaatgtattgtattgat-...95...tttactccacag	cattcctc
D. Wil	acTAAACA	GTAAGT	-acttataatccagtccaatt...111...tcttttcaacag	cattcctc
D. Yak	acTAAACA	GTAAGT	--agggatgatcgtatggggat...94...tctaactccacag	cattcctc
	*****	*****	* *****	*****

id=113469 gene=FBgn0002772 name=Mlc1 segment=chr3R.23483678.23483788.-1 type=IN

Figure 178: CS=12



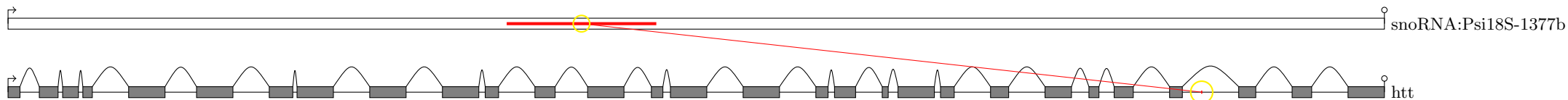
D.Mel	-----actttcta	tcgttttgtgttattt	gctggaagttacat	caaagccagtga	TTGTCAACAGAACGTA	---aatta-----	at-gcggc-tatcactc...	45...	-----ctgccacactc	tcgtagaa	
D.Sim	-----ctgataca	tcgttctgtgtttt	cgctggctgtc-ctt	caaagccagtga	TTGTCAACAGAACGTA	---catta-----	atggcagcttatcac--	47...	-----ctgccacagtt	ccttacia	
D.Sec	-----tctgtcta	tcgttttgtgttattt	gctggaagttacat	caaagccagtga	TTGTCAACAGAACGTA	---catta-----	atggcagcttatcac--	47...	-----ctgccacagtt	ccttacia	
D.Ere	-----actgccca	tcgttttgtgttattt	gctggaagttat	caaagccagtga	TTGTCAACAGAACGTA	---aatca-----	atggcagc-tatcact-	46...	-----ctgccacactt	cctcgtaa	
D.Gri	-----aacagaca	ccgttctgtgttattt	gctgaatttagtc	-tctcattcagtga	TTGTCAACAGAACG	---cacaacaa-----	actccaagccag-----	53...	-----cgggctacattg	ctttaaag	
D.Per	ccacagtctggtacc	cttga	ccgttctgtgttatt	cgctagacttacc	-ttctagtcacgga	TTGTCAACAGAACGTA	ca---cta-----	atcccaggcaactac--	89...	tccttatatccgccgttctt	-----
D.Pse	ccacagtctggtacc	cttga	ccgttctgtgttatt	cgctagacttacc	-ttctagtcacgga	TTGTCAACAGAACGTA	ca---cta-----	atcccaggcaactac--	89...	tccttatatccgccgttctt	-----
D.Vir	-----aaacgcta	ccgttctgtgttatt	cgctgaatctgtta	atctcgctcagcga	TTGTCAACAGAACG	---caaagcga-----	actcccaggccag-----	52...	-----ctgccacattt	attcttaa	
D.Wil	-----attcagta	tcgttctgtgttatt	tcgcaaatctttcat	ctagttcggtga	TTGTCAACAGAACG	---cagaataaagcatt	actcca-----	137...	-----tgaactgactc	tgtgttga	
D.Yak	-----actgttta	tcgttttgtgtttt	tcgctgattgtc-ctt	caaaaccagtga	TTGTCAACAGAACGTA	---aagaa-----	at-gcagcttttctact-	46...	-----ctgccacactt	tcttagaa	
		*	****	*****	**	*	*	*****	*	*	

id=43235 gene=FBgn0083050 name=snoRNA:Psi18S-1377b segment=chr3R.26033215.26033352.-1 type=EN

D.Mel	atttggcc	gtaagtgctctc	TATGTTT	TGTTGACAA	ctccttactggccgcacaaa..1258..	ccattttgcag	tagttaa
D.Sim	atttggcc	gtaagtgctctc	TATGTTT	TGTTGACAA	ctccttactggccgcacaaa..1236..	ccattttgcag	tagttaa
D.Sec	atttggcc	gtaagtgctctc	TATGTTT	TGTTGACAA	ctccttactggccgcacaaa..1236..	ccattttgcag	tagttaa
D.Ere	ataggcc	gtaagtgctctc	TATGTTT	TGTTGACAA	ctccttactggccgcacaaa..1168..	ccattttgcag	tagttaa
D.Gri	attgcct	ataagtgctctta	TGTTT	TGTTGACAA	ctccttactggacgcacaaag..1705..	tcgttttgcag	tagttaa
D.Per	ggacgacc	ataagtgctctc	TATGTTT	TGTTGACAA	ctccttactagccgcacaaag..1884..	ccattttgcag	tagttaa
D.Pse	ggacgacc	ataagtgctctc	TATGTTT	TGTTGACAA	ctccttactagccgcacaaag..1399..	ccattttgcag	tagttaa
D.Vir	atttgcgt	ataagtgctctc	TATGTTT	TGTTGACAA	ctccttactggtcacacaaa..1355..	tcgttttgcag	tagttaa
D.Wil	attggacc	ataagtgctctc	TATGTTT	TGTTGACAA	ctccttactggctacacaca..1198..	ccattttgcag	tagttaa
D.Yak	atttggcc	gtaagtgctctc	TATGTTT	TGTTGACAA	ctccttactggccgcacaaa..1186..	ccattttgcag	tagttaa
	*	*****	*****	*****	*	**	*****

id=67325 gene=FBgn0259995 name=CG40169 segment=chr2L.20236129.20237448.1 type=IN

Figure 179: CS=14



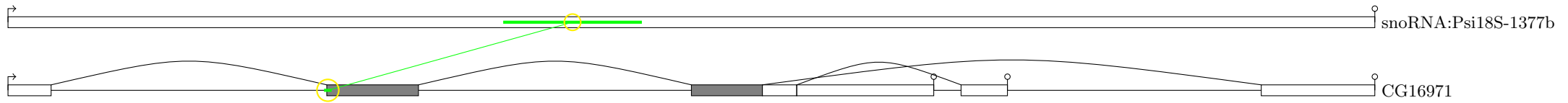
D. Mel	-----actttcta	tcgtttttgtgttatttgc	tggaagttacatc	caaagccagt	----	GATTGTCAAACAGAAAC	gtaaa-ttaat-gcggctatca...	48...	-----ctcgccacactc	tcgtagaa	
D. Sim	-----ctgatata	tcgttcttgtgttttc	gcgtggctgtc-cttt	caaagccagt	----	GATTGTCAAACAGAAAC	gtaca-ttaatggcagcttat...	50...	-----ctcgccacagtt	ccttacia	
D. Sec	-----tctgtcta	tcgtttttgtgttattt	gcgtgaagttacatc	caaagccagt	----	GATTGTCAAACAGAAAC	gtaca-ttaatggcagcttat...	50...	-----ctcgccacagtt	ccttacia	
D. Ere	-----actgccca	tcgtttttgtgttattt	gcgtgaagttatata	caaagccagt	----	GATTGTCAAACAGAAAC	gtaaa-tcaatggcagctatc...	49...	-----ctcgccacactt	cctcgtaa	
D. Gri	-----aacagaca	ccgttcttgtgttattt	gcgtgaattagtagt	ctctcattcagtg	----	ATTGTCAAACAGAAAC	gcacacaaactccaagcc	...	55...	-----cgggctacattg	ctttaaag
D. Per	ccacagtctggtacccttga	ccgttcttgtgttattt	gcgtagacttacc-tt	ctagtcagc	----	GATTGTCAAACAGAAAC	gtaca-ctaataccaggcaac...	92...	tccttatatccgcttctt	-----	
D. Pse	ccacagtctggtacccttga	ccgttcttgtgttattt	gcgtagacttacc-tt	ctagtcagc	----	GATTGTCAAACAGAAAC	gtaca-ctaataccaggcaac...	92...	tccttatatccgcttctt	-----	
D. Vir	-----aaacgcta	ccgttcttgtgttattt	gcgtgaatctgttacc	gc	----	GATTGTCAAACAGAAAC	gcaaagcgaactccaggcca	...	53...	-----ctcgccacattt	attcttaa
D. Wil	-----atcagta	tcgttcttgtgttattt	gcgga---aat-cttt	catctagttcggt	----	GATTGTCAAACAGAAAC	gcagaataaa-gcattactcc...	138...	-----tgaaactgactc	tggttga	
D. Yak	-----actgttta	tcgtttttgtgttttc	gcgtgattgtc-ctt	caaaaccagt	----	GATTGTCAAACAGAAAC	gtaaa-gaaat-gcagcttttc...	49...	-----ctcgccacactt	tcttagaa	
		*	****	*****	** **		*****	*	**	*	

id=43235 gene=FBgn0083050 name=snoRNA:Psi18S-1377b segment=chr3R.26033215.26033352.-1 type=EN

D. Mel	ttctgcat	gtgagtacaaac...218...	gccacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aaacggcaacggaactg--...	815...	tgctattgacag	ggcctgga
D. Sim	ttctgcat	gtgagtacaaac...218...	gccacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aaacggcaacggaactg--...	805...	tgctattgacag	ggcctgga
D. Sec	ttctgcat	gtgagtacaaa...218...	gccacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aaacggcaacggaactg--...	827...	tgctattgacag	ggcctgga
D. Ere	ttctgcat	gtgagtacaaa...211...	gccacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aaacggcaacggaactg--...	839...	tgctattgacag	ggcctgga
D. Gri	tgctacat	gtaagtatacct...116...	---cacgtcgcgcttaattg	gtaTTTTGATTGACAATT	atgc---aaag---gccaccagcc...	1347...	tgctattgacag	ggcctgga
D. Per	ttctgcat	gtgagtattccg...304...	accacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttg---aaaaggcacggcaacca--...	1022...	gctatgccccag	ggcctgga
D. Pse	ttctgcat	gtgagtattccg...304...	accacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttg---aaaaggcacggcaacca--...	1039...	gctatgccccag	ggcctgga
D. Vir	ttctgcat	gtgagtacaaa...140...	gtccacgtcgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aagaggagccaaccag--...	2053...	tgctattgacag	ggcctgga
D. Wil	tactgcat	gtgagtacaaa...221...	agccatgttgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aaacggcaacggaactg--...	810...	tgctattgacag	ggcctgga
D. Yak	ttctgcat	gtgagtacaaa...229...	gccacgttgcgcttaattg	GTTTTTTGATTGACAATT	ttc---aaacggcaacggaactg--...	838...	tgctattgacag	ggcctgga
		** ** **	** **	*****	*****	*	** *	*

id=34099 gene=FBgn0027655 name=htt segment=chr3R.24553422.24554536.1 type=IN VIEW

Figure 183: CS=10



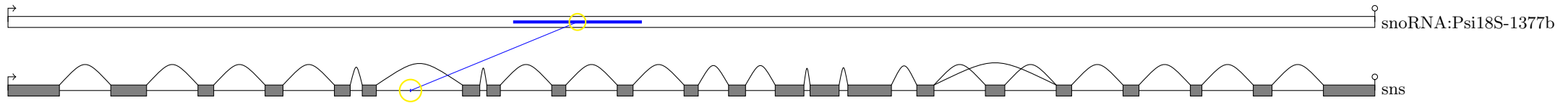
D. Mel	-----actttcta	tcgtttttggttatttgctggaagttacatccaaagcca	GTGATTGtCAAAcAGAA	cgtaaa-ttaat-gcggctatc...	49...	-----ctcgccacactc	tcgtagaa
D. Sim	-----ctgataca	tcgttcttggttttctgctggctgtc-ctttcaaagcca	GTGATTGtCAAAcAGAA	cgtaaa-ttaatggcagctta...	51...	-----ctcgccacagtt	ccttacia
D. Sec	-----tctgtcta	tcgtttttggttatttgctggaagttacatccaaagcca	GTGATTGtCAAAcAGAA	cgtaaa-ttaatggcagctta...	51...	-----ctcgccacagtt	ccttacia
D. Ere	-----actgccca	tcgtttttggttatttgctggaagttatataccaaagcca	GTGATTGtCAAAcAGAA	cgtaaa-tcaatggcagctat...	50...	-----ctcgccacactt	cctcgga
D. Ana	-----aatttgctc	ccgttcttggttttctgctggaataatctcctcaagacca	GTGATTGtCAAAcAGAA	cgcaaga-ctataggcagctaa...	61...	ggaatattactatcacagac	-----
D. Gri	-----aacagaca	ccgttcttggttatttgctgaattagtagt-ctctcattca	GTGATTGtCAAAcAGAA	cgcaacaactccaagcc...	55...	-----cgggctacattg	ctttaaag
D. Per	ccacagtctggtacccttga	ccgttcttggttattcgctagacttacc-ttctagtcca	GCGATTGtCAAAcAGAA	cgtaaa-ctaataccaggcaa...	93...	tccttatatccgccgttctt	-----
D. Pse	ccacagtctggtacccttga	ccgttcttggttattcgctagacttacc-ttctagtcca	GCGATTGtCAAAcAGAA	cgtaaa-ctaataccaggcaa...	93...	tccttatatccgccgttctt	-----
D. Vir	-----aaacgcta	ccgttcttggttattcgctgaatctgtaaatctcgtcca	GCGATTGtCAAAcAGAA	cgcaagcgaactccaggcc...	54...	-----ctcgccacattt	attcttaa
D. Wil	-----attcagta	tcgttcttggttatttgccgaatctttcatctagttcc	GTGATTGtCAAAcAGAA	cgcaagaataaagcattactc...	139...	-----tgaaactgactc	tgtgttga
D. Yak	-----actgttta	tcgtttttggttttctgctgattgtc-cttcctcaaaacca	GTGATTGtCAAAcAGAA	cgtaaa-gaaat-gcagctttt...	50...	-----ctcgccacactt	tcttagaa
		**** ***** ** **					

id=43235 gene=FBgn0083050 name=snoRNA:Psi18S-1377b segment=chr3R.26033215.26033352.-1 type=EN

D. Mel	aagtgaag	gtgtgtgtatac...744...-gttttattacg-acaacca-at	TTCTcaTTTGCAG	TCGCaaac
D. Sim	aagtgaag	gtgtgtgtatac...744...-gttttattacg-acaacca-at	TTCTcaTTTGCAG	TCGCaaac
D. Sec	aagtgaag	gtgtgtgtatac...739...-gttttattacg-acaacc-at	TTCTcaTTTGCAG	TCGCaaac
D. Ere	tagtgaag	gtgtgtgtatac...747...-gttttattacg-acaacca-at	TTCTcaTTTGCAG	TCGCaaac
D. Ana	cagtgaag	gtgtgtgtttta...930...agttttattacg-acaacc--at	TTCTcaTTTGCAG	TCGCaaac
D. Gri	gtgtgttt	gtgtgtgtatata...625...agttttattacg-caagaa--at	TTCTcaTTTGCAG	TCGCaaaa
D. Per	aggtgtgt	gtgtgtgtatac...674...-ttttattacg-acaaccat	TTCTcaTTTGCAG	TCGCaatc
D. Pse	aggtgtgt	gtgtgtgtatac...674...-ttttattacg-acaaccat	TTCTcaTTTGCAG	TCGCaatc
D. Vir	tagtgata	tagcgcgctggc...639...agttttattacg-aaagaa--at	TTCTcaTTTGCAG	TCGCaaaa
D. Wil	cagtcaag	gtgtgtttttt...795...-ttttattacgaaaaaaccat	TTCTcaTTTGCAG	TCGCaaac
D. Yak	gagtgaag	gtgtgtgtgtat...747...-gttttattacg-acaacca-at	TTCTcaTTTGCAG	TCGCaaac
	**	**	***** *	*****

id=38378 gene=FBgn0260457 name=CG16971 segment=chr3L.224184.224972.1 type=I5

Figure 184: CS=15.4



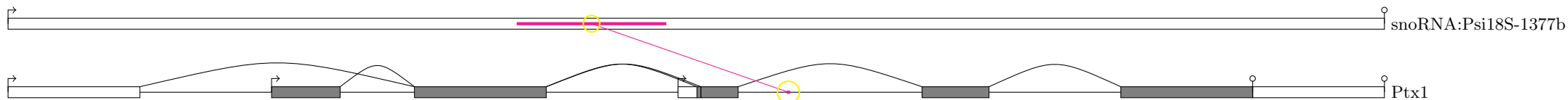
D.Mel	-----actttcta	tcgtttttggttatttctggaagttacatccaagccag	TGATTGt	CAAAc	AGAAc	GTAA	----atta-----atg-cggctatcactcc...44...-----ctgccacactc	tcgtagaa
D.Sim	-----ctgataca	tcgttcttggtttttcgtggctgtc-ctttcaaagccag	TGATTGt	CAAAc	AGAA	----cgtacatta-----atggcagct----ta...51...-----ctgccacagtt	ccttacia	
D.Sec	-----tctgtcta	tcgtttttggttatttctggaagttacatccaagccag	TGATTGt	CAAAc	AGAA	----cgtacatta-----atggcagct----ta...51...-----ctgccacagtt	ccttacia	
D.Ere	-----actgccca	tcgtttttggttatttctggaagttatataccaagccag	TGATTGt	CAAAc	AGAAc	GTAA	----atca-----atggcagctatcactc...45...-----ctgccacactt	cctcgtaa
D.Ana	-----aattgtc	ccgttcttggttttttctggaataatctcctcaagaccag	TGATTGt	CAAAc	AGAA	----cgaagacta-----taggcagctaa-----...61...ggaatattactatcacagac	-----	
D.Gri	-----aacagaca	ccgttcttggttatttctggaatttagtc-tctcattcag	TGATTGt	CAAAc	AGAA	----cgacaaca-aactccaagcc-----...55...-----cgggctacattg	ctttaag	
D.Per	ccacagtctggtacccttga	ccgttcttggttattcctagacttacc-ttctagtcaccg	GATTGt	CAAAc	AGAA	----cgtaca-ct-aatcccaggcaa-----...93...tccttatatccgcttctt	-----	
D.Pse	ccacagtctggtacccttga	ccgttcttggttattcctagacttacc-ttctagtcaccg	GATTGt	CAAAc	AGAA	----cgtaca-ct-aatcccaggcaa-----...93...tccttatatccgcttctt	-----	
D.Vir	-----aaacgcta	ccgttcttggttattcctagacttacc-ttctagtcaccg	GATTGt	CAAAc	AGAAc	GCAG	----agcg-aactcccaggcagttt-----...49...-----ctgccacattt	attcttaa
D.Wil	-----attcagta	tcgttcttggttatttctggaatctttcatctagttcgg	TGATTGt	CAAAc	AGAAc	GCAG	aataaagcattactccagca-----...134...-----tgaactgactc	tgtgttga
D.Yak	-----actgttta	tcgtttttggtttttcgtgattgtc-cttccaaaaccag	TGATTGt	CAAAc	AGAAc	GTAA	----agaa-----atg-cagcttttctc...45...-----ctgccacactt	tcttagaa
		**** * * * * *						

id=43235 gene=FBgn0083050 name=snoRNA:Psi18S-1377b segment=chr3R.26033215.26033352-1 type=EN

D.Mel	cgtgctgt	gtaagtcgagtt...282...gaaactcgtcgt--ggctg----	TTGct	TTCTTTTGCAATTA	agcttaagtttgactttga..1465...-ctgcctcccag	ttgcacc
D.Sim	cgtgctgt	gtaagtcgagtt...287...-----ctcgcctcgt--ggctggtgct----	TTCTTTTGCAATTA	agcctaagtttgactttga..1451...-ctgccttcgag	ttgcacc	
D.Sec	cgtgctgt	gtaagtcgagtt...289...-----ctcgcctcgt--ggctggtgct----	TTCTTTTGCAATTA	agcctaagtttgactttga..1437...-ctgcctcccag	ttgcacc	
D.Ere	cgtgctgt	gtaagtcgagtt...242...gggaatggagctt--cgctg----	TTGct	TTCTTTTGCAATTA	agcctaagtttgactttga..1403...-ctcctcccag	ttgcacc
D.Ana	tgtcctgt	gtaagtagagag...428...-----ctttccgcgctctgtgct----	TTCTTTTGCAATTA	accctaagtttgactttgg..1608...tactc-catacag	ttgcacc	
D.Gri	tgtactat	gtaagtgaata...524...-----ctttcactgaggctgtgct----	TTCTTTTGCAATTA	agcctaagcttgactctaa..2084...-ctaactcaacag	tcgcacct	
D.Per	tgttttgt	gtaagtagagcc...439...-----cgctccgttccgctgtgct----	TTCTTTTGCAATT	aagcctaagtttgactttg...1767...-acacacacag	ttgcacc	
D.Pse	tgttttgt	gtaagtagagac...447...-----cgctccgttccgctgtgct----	TTCTTTTGCAATT	aagcctaagtttgactttg...1735...-acacacacag	ttgcacc	
D.Vir	tgttctgt	gtaagtgaacc...412...tctatctcgtctct--ggctg----	TTGct	TTCTTTTGCAATTA	aagcctaagcttgactttg...1276...-tacaaccgacag	tcgcacct
D.Wil	tgttctat	gtaagtagaaa...1359...-----aaggctctgggtctcttctg	TTGct	TTCTTTTGCAATTA	agcctaagtttgactacctt...1374...-ctatcatttag	ttgcacct
D.Yak	cgtgctgt	gtaagtcgagtt...290...gaaactcgtcact--ggctg----	TTGct	TTCTTTTGCAATTA	agcctaagtttgactttga..1479...-ttcctcccag	ttgcacc
	** * *	*****		***** * * * *		** * *

id=78574 gene=FBgn0024189 name=sns segment=chr2R.4711582.4713411.1 type=IN

Figure 185: CS=12.98



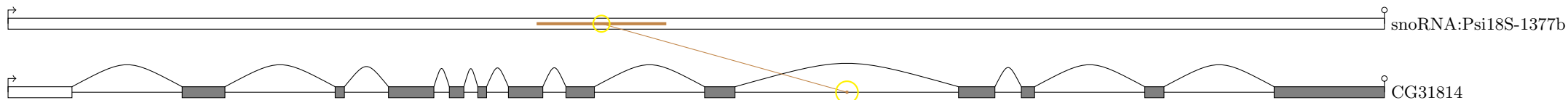
D. Mel	-----actttcta	tcgtttttgtgttatttgctggaa	-----gttacatc-	CAAAGc	CAGTGATTG	tCAAACa	GAACG	taaat	aat-gcggc-	tatcac	-----	...47...	-----ctcgccacactc	tcgtagaa	
D. Sim	-----ctgataca	tcgttcttgtgttttcgctgg	-----ctgtcctt	TCAAAGc	CAGTGATTG	tCAAACa	GAACG	tacatta	aatggcagc	ttatc	-----	...49...	-----ctcgccacagt	ccttacia	
D. Sec	-----tctgtcta	tcgtttttgtgttatttgctggaa	-----gttacatc-	CAAAGc	CAGTGATTG	tCAAACa	GAACG	tacatta	aatggcagc	ttatc	-----	...49...	-----ctcgccacagt	ccttacia	
D. Ere	-----actgccca	tcgtttttgtgttatttgctggaa	-----gttatatc-	CAAAGc	CAGTGATTG	tCAAACa	GAACG	taaat	caatggcagc-	tatca	-----	...48...	-----ctcgccacact	cctcggaa	
D. Gri	-----aacagaca	ccgttcttgtgttatttgctgaattagt	-ctctcattcag	-----	TGATTG	tCAAACa	GAACG	caca	aaa-	-----	...53...	-----cgggctacattg	ctttaaag		
D. Per	ccacagtctggtacccttga	ccgttcttgtgttattcgctagacttacc	-ttctagtccagc	-----	GATTG	tCAAACa	GAACG	taca	-cta-	-----	...91...	tccttatatccg	cggttctt	-----	
D. Pse	ccacagtctggtacccttga	ccgttcttgtgttattcgctagacttacc	-ttctagtccagc	-----	GATTG	tCAAACa	GAACG	taca	-cta-	-----	...91...	tccttatatccg	cggttctt	-----	
D. Vir	-----aaacgcta	ccgttcttgtgttattcgctgaatctgtta	atctcgttcagc	-----	GATTG	tCAAACa	GAACG	caa	agcga-	-----	...52...	-----ctcgccacatt	atcttaa		
D. Wil	-----attcagta	tcgttcttgtgttatttgccga	-----aat-ctttcatctagtt	-----	CGGTGATTG	tCAAACa	GAACG	caga	ataaa-	gcattactcca	-----	...137...	-----tgaaactgactc	tgtgttga	
D. Yak	-----actgttta	tcgtttttgtgttttcgctga	-----ttgtccttc	CAAACac	CAGTGATTG	tCAAACa	GAACG	taaga	aaat-	gcagc	ttttca	-----	...48...	-----ctcgccacact	tcttagaa
		*	****	*****	**	*	*	*****	*****	*	*	*	*	*	

id=43235 gene=FBgn0083050 name=snoRNA:Psi18S-1377b segment=chr3R.26033215.26033352.-1 type=EN

D. Mel	caaagatg	gtgagtagcagt...144...	gaaatttactcggccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	518...	cttctccacag	gcaatcgc
D. Sim	caaagatg	gtgagtagcagt...143...	gaaatttactcggccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	534...	cttctccacag	gcaatcgc
D. Sec	caaagatg	gtgagtagcagt...142...	gaaatttactcggccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	501...	cttctccacag	gcaatcgc
D. Ere	caaagatg	gtgagtagcagt...159...	cgaatttactcggccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	477...	cttctccag	gcaatcgc
D. Gri	caaagatg	gtaagtaaatc...888...	aaaatttactcgtcgcggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	1097...	gtttttttgcag	gtaatcgc
D. Per	caaagatg	gtgagtagcagt...133...	aatctatgcccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	599...	tactctttcag	gaaatcgc
D. Pse	caaagatg	gtgagtagcagt...141...	aatctatgcccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	611...	tactctttcag	gaaatcgc
D. Vir	caaagatg	gtaagtaaacg...546...	aaaatttactcactcgcggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	535...	tttcgcttgcag	gcaatcgc
D. Wil	caaagatg	gtgagtagcagt...100...	aaaatttacttacttgcggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	1114...	cttctatcttag	gtaatcga
D. Yak	caaagatg	gtgagtagcagt...145...	gaaatttactcggccgggtc	CGTTT	GTTT	CGATT	agACTGc	CTTTG	atttgcgac	ctcagcagcagc-	...	573...	tttctttcag	gcaatcgc
	*****	**	****	*****	**	*	*	*****	*****	*	*	*	*	*

id=71803 gene=FBgn0020912 name=Ptx1 segment=chr3R.26749281.26750034.1 type=IN VIEW

Figure 186: CS=11.8



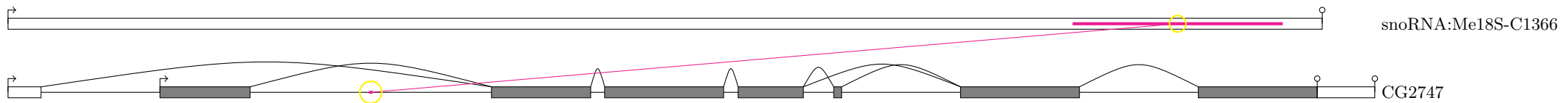
D. Mel	-----actttcta	tcgttttt	gttattt	gctgga	gttacat	ccaagcc	agcagtg	TTGTCA	AACA	gAACG	taaatta	at-gcggc	-tatcac	-----	... 47 ...	-----ctgccacactc	tcgtagaa		
D. Sim	-----ctgataca	tcgttctt	gtgtttt	cgctgg	ctgtc-	ctttcaa	agccagtg	TTGTCA	AACA	gAACG	tacatta	aatggcag	cttatc	-----	... 49 ...	-----ctgccacagtt	ccttacia		
D. Sec	-----tctgtcta	tcgttttt	gttattt	gctgga	gttacat	ccaagcc	agcagtg	TTGTCA	AACA	gAACG	tacatta	aatggcag	cttatc	-----	... 49 ...	-----ctgccacagtt	ccttacia		
D. Ere	-----actgccca	tcgttttt	gttattt	gctgga	gttatat	ccaagcc	agcagtg	TTGTCA	AACA	gAACG	taaatca	atggcagc	-tatca	-----	... 48 ...	-----ctgccacactt	cctcgtaa		
D. Gri	-----aacagaca	ccgttctt	gttattt	gctgaat	ttatgc-	tctcatt	cagtg	TTGTCA	AACA	gAACG	cacaaca	-----	actcca	agccag-	... 53 ...	-----cgggctacattg	ctttaaag		
D. Per	ccacagtct	ggtagcc	cttga	ccgttctt	gttattt	cgctag	acttacc-	ttctag	tccagc	gaTTGTCA	AACA	gAACG	taca-cta	-----	atccag	gcaact... 91...	tccttata	tccgccgttctt	-----
D. Pse	ccacagtct	ggtagcc	cttga	ccgttctt	gttattt	cgctag	acttacc-	ttctag	tccagc	gaTTGTCA	AACA	gAACG	taca-cta	-----	atccag	gcaact... 91...	tccttata	tccgccgttctt	-----
D. Vir	-----aaacgcta	ccgttctt	gttattt	cgctga	atctgt	taactc	ctgttc	agcga	TGTCA	AACA	gAACG	caaacg	ga-	-----	actcag	gccag-	... 52 ...	-----ctgccacattt	attcttaa
D. Wil	-----attcagta	tcgttctt	gttattt	gcccga	aatcttt	catctag	tccgtg	gaTTGTCA	AACA	gAACG	cagaata	aaa-gc	tactcca	-----	... 137 ...	-----tgaactgactc	tgtgttga		
D. Yak	-----actgttta	tcgttttt	gtttttt	cgctgat	ttgtc-	ctttcaa	aaacagtg	TTGTCA	AACA	gAACG	taagaaat	-gcagctttt	ca-	-----	... 48 ...	-----ctgccacactt	tcttagaa		
		*	****	*****	** **	*	*	*****	*****	*	*	*	*			*			

id=43235 gene=FBgn0083050 name=snoRNA:Psi18S-1377b segment=chr3R.26033215.26033352.-1 type=EN

D. Mel	catatcgg	gtaagatagggc... 1325...	---tttatgcttaaatgtcactt	TGTTTGTT	GATAG	-----gcatagccatgccc	aattca-----	... 1569...	tcgcactttcag	acacctcg
D. Sim	catatcgg	gtaagatagggc... 1613...	---tttatgcttaaatgtcactt	TGTTTGTT	GATAG	-----gcatag-cattccc	aattcaa-----	... 1537...	tcgcactttcag	acacctcg
D. Sec	catatcgg	gtaagatagagc... 1321...	---tttatgcttaaatgtcactt	TGTTTGTT	GATAG	-----gcatagccatgccc	aattca-----	... 1531...	tcgcactttcag	acacctcg
D. Ere	catatcgg	gtaagaaagggc... 2323...	---tttatgcttaaatgtcactt	TGTTTGTT	GATAG	-----gcacaggaaaatc	tatggct-----	... 1579...	tcgcactttcag	acacctcg
D. Gri	aatatcag	gtattgtccact... 2113...	taacaaactt--tcgccgtt-	TGTTTGTT	GATAA	----ggtta-aaacacacatt	caaca-----	... 1986...	tgcgttttcag	atacttca
D. Per	catatcgg	gtgagttatgtc... 1841...	---tttatgctcaaatgtcactt	TGTTTGTT	GATAA	gaaaggcagagataggcttt	-----	... 1693...	gcatatttcag	acacatcg
D. Pse	catatcgg	gtgagttatgtc... 1843...	---tttatgctcaaatgtcactt	TGTTTGTT	GATAA	gaaaggcagagataggcttt	-----	... 1684...	gcatatttcag	acacatcg
D. Vir	aatatcag	gtaatttgaact... 2153...	---tttatgcttaagtccatt-	TGTTTGTT	GATA	---tgccacagacacacatctga	-----	... 1583...	tgcgttttcag	acacttcc
D. Wil	tatatcgg	gtaagatgttta... 1836...	---tttatgcttaaatggcatat	TGTTTGTT	GATAA	gaatggaatatatggagtat	-----	... 1473...	atctcattgcag	acacttcc
D. Yak	catatcgg	gtaagacagggc... 1335...	---tttatgcttaaatgtcactt	TGTTTGTT	GATAG	-----gcatagccgaacaaa	aaagga... 1581...	tcgcactttcag	acacctca	
	**** *	**	***	**	*****	**	***	**	***	** ** *

id=47497 gene=FBgn0051814 name=CG31814 segment=chr2L.13684549.13687520.-1 type=IN

Figure 187: CS=11.8



```

D. Mel aattaaat agttacttgatg---.41...-----ttggcattcttttcctgtagAAAGaaTAAGAcGGCCAActgata---aa ctaaattt
D. Sim aacttatt agttacttgatg---.37...-agatttggcattcttttcctGTGGAAGaaTAAGAcGGCCAActgata---aa ctaaattg
D. Sec aatttatt agttacttgatg---.37...-agatttgtcattcttttcctGTGGAAGaaTAAGAcGGCCAActgata---aa ttaaattg
D. Ere gattcatt agtttcttgatg---.38...-agatttggcattcttttcctGTGGAAGaaTAAGAcGGCCAActgata---ac ctaaattg
D. Ana ttctgttt gattccttgatg---.41...-----ctggcattcatttcttgtagAAAGaaTAAGAcGGCCAActgata---aa tctgtcca
D. Gri ---tgtca aattttgttacacat...53...ggcggctagcattcttttcTGTAGAAAGaaTAAGAcGGCCAActgataaagaa tgaaatca
D. Moj ---atatt aatgtattgatgaat...45...---ttctagcgttcttcttctgtAGAAAGaaTAAGAcGGCCAActgata---gt tttattgc
D. Per tttgcacg aattttttgatg---.42...-----ctggcattcttttcctgtagAAAGaaTAAGAcGGCCAActgata---aa tcatttca
D. Pse tttgcacg aattttttgatg---.42...-----ctggcattcttttcctgtagAAAGaaTAAGAcGGCCAActgata---aa tcatttca
D. Vir gagtatata agagccttaaat---.54...-----actagattcattatcttctaGAAAGaaTAAGAcGGCCAActgatt---aa tgcattat
          * *                *   *** * * *   *****

```

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287_10509386.1 type=EN

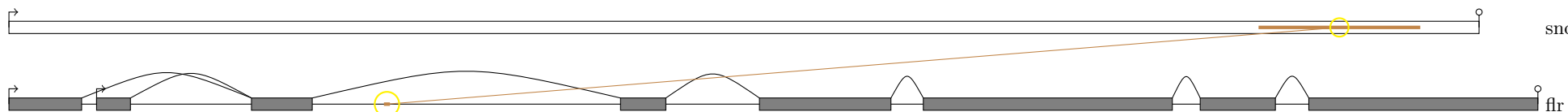
```

D. Mel gcgcgag gtaatttcgga...836...-----ccttgtttcgatttaataatTTGGCTccTCTTgCTTT---gccgcatctg---tgtcaatgg-----...789...cttgctctgcag atcgttta
D. Sim gcgcgag gtaaatgcagga...1352...-----ccttgtttcggttataataatTTGGCTccTCTTgCTTTgCCGC---catctg---tgtcaacgg-gcgct...777...cttgctctgcag atcgttta
D. Sec gcgcgag gtaaatgcagga...1347...-----ccttgtttcggttataataatTTGGCTccTCTTgCTTTgCCGC---catctg---tgtcaacgg-gcgct...779...cttgctctgcag atcgttta
D. Ere gcgcgag gtaaatgcagga...1322...-----ccttgtttcggttataataatTTGGCTccTCTTgCTTTgCCGC---catctg---tgtcaatgg-gcgcc...788...cttgctctgcag atcgttta
D. Ana gcgcgag gtaaatgcaaa...857...-----ccttgttttggattaataatTTGGCTccTCTTgCTTT---gccatctg---tgtcaatgg-gag---...564...cctcgcttgcag atcgttta
D. Gri gcgcgag gtaataaatct...646...ggcgaaacaccctc---c---ataacTTGGCTccTCTTgCTTTTTGTAtgcatgtg---tgtgtgtga-gtg---...600...ttcgattgcag atcattta
D. Moj gcgcgag gtaataaat...508...-----acaccctcttacgt---aggatTTGGCTccTCTTgCTTTTT---caatgta---tgtgtgtgatgtg---...784...ttcgattgcag atcattta
D. Per gcgcgag gtaaaataaaaa...960...-----ccttgtttcgtattataataatTTGGCTccTCTTgCTTT---gtccccatcta---tgtcaatgg-----...1259...cgttccttgcag atcgttta
D. Pse gcgcgag gtaaaacaaaa...948...-----ccttgtttcgtattataataatTTGGCTccTCTTgCTTT---gtccccatcta---tgtcaatgg-----...1345...cgttccttgcag atcgttta
D. Vir gcgcgag gtaataaat...518...ggcg-acaccctct---t---agaatTTGGCTccTCTTgCTTT---cacattaccctgcatatgt-----...974...ttcgattgcag atcattta
***** *****
          * * *                * * *****

```

id=42575 gene=FBgn0037541 name=CG2747 segment=chr3R.3850792_3852498.-1 type=IN

Figure 190: CS=10.8



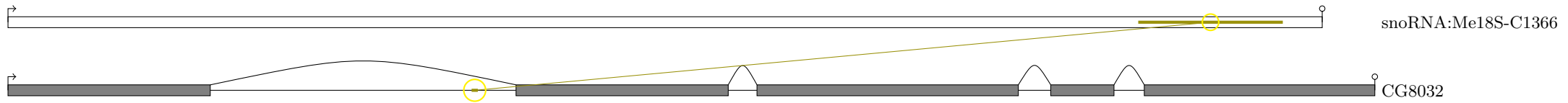
D.Me1	aattaaat	agttacttgatg---.36...-aagatttggcattccttttc	TGTAGA	aaGAATAAGAACGGC	caactgata---aa	ctaaat
D.Sim	aacttatt	agttacttgatg---.36...-aagatttggcattccttttc	TGTGGA	aaGAATAAGAACGGC	caactgata---aa	ctaaatgt
D.Sec	aatttatt	agttacttgatg---.36...-aagatttgcattccttttc	TGTGGA	aaGAATAAGAACGGC	caactgata---aa	ttaa
D.Ere	gattcatt	agtttcttgatg---.37...-aagatttggcattccttttc	TGTGGA	aaGAATAAGAACGGC	caactgata---ac	ctaaatgt
D.Ana	ttctgttt	gattccttgatg---.35...caagaactggcattcatttc	TTGTAGAA	GAATAAGAACGGC	caactgatg---aa	tctgtcca
D.Gri	---tgtca	aattttgttacacat...55...-cgg--ctagcattcctttcttg	TAGA	aaGAATAAGAACGGCCAAC	tgataaa	tgaaatca
D.Moj	---atatt	aatgtattgatgaat...43...-gtttctagcgttcttatctt	GTAGA	aaGAATAAGAACGGCCAAC	tgatt---gt	tttattgc
D.Per	tttgacg	aattttttgatg---.36...tcgggcctggcattccttttc	CTGTAGAA	GAATAAGAACGGC	caactgata---aa	tcatttca
D.Pse	tttgacg	aattttttgatg---.36...tcgggcctggcattccttttc	CTGTAGAA	GAATAAGAACGGC	caactgata---aa	tcatttca
D.Vir	gagtatat	agagccttaaat---.51...-gttactagagttcatatctt	GTAGA	aaGAATAAGAACGGCCA	actgatt---aa	tgattat
D.Yak	aatttatt	agtttcttgatg---.36...-aagatttggcattccttttc	TGTGGA	aaGAATAAGAACGGC	caactgata---aa	ctaaatct
		* *	*	***	**	***

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287_10509386.1 type=EN

D.Me1	acatcgag	gtaagctgatat...104...-tgctttctggctttcgggca---	GCTGTTCTa	TATTTa	TTTATA	--tatatatgtacagtatataa-----	.430...--tccgaccatag	aatccagc
D.Sim	acatcgag	gtaagctgatat...104...-tgctttctggctttcgggca---	GCTGTTCTa	TATTTa	TTTATA	tatatatgtgtacggtatat-----	.448...--accgaccatag	aatccagc
D.Sec	acatcgag	gtaagctgatat...104...-tgctttctggctttcgggca---	GCTGTTCTa	TATTTa	TTTATA	--tatatatgtacggtatatataa-----	.444...--accgaccatag	aatccagc
D.Ere	acatcgag	gtaagctgatat...104...-tgctttctggctttcgggca---	GCTGTTCTa	TATTTa	TTTATA	tatatgtacatat-gtacgta-----	.439...cttctgcacc--ag	aatccagc
D.Ana	acatcgag	gtaagctgatat...123...ctggctgtggc-tgctggca---	GCTGTTCTa	TATTTa	TTTTaa	ATAG--ccattccacaggccgaccgg...	.168...--tccgccccaaag	aaccagc
D.Gri	ataticgag	gtgagctctaca...153...atgtgtgtgtgtgtgtgtgt	GTTGGCTGTTCTa	TATTTa	TTTaa	--gatatatataat---gtatataca---	.233...--tgccataaccag	aatccagc
D.Moj	ataticgag	gtaagaaaagaa...180...gcgagtggtgagtgctgtgt	GTTGGCTGTTCTa	TATTTa	TTTaa	catatatctatat-gtatgta-----	.325...--tcgctgtccag	aaccagc
D.Per	ataticgag	gtaagttgatat...143...gtgctgtctgc-tgctggca---	GCTGTTCTa	TATTTa	TTTTATAG	--aatctacgctgataaccat---	.206...--cgatttatgtag	aaccagc
D.Pse	ataticgag	gtaagttgatat...143...gtgctgtctgc-tgctggca---	GCTGTTCTa	TATTTa	TTTTATAG	--aatctacgctgataaccat---	.206...--cgatttatgtag	aaccagc
D.Vir	ataticgag	gtaagttcattt...150...gcggtgtgtgtgtgtatgc---	TGGCTGTTCTa	TATTTa	TTTaa	cgacacatctgtac-ataagta-----	.271...--tcgctgcatag	aatccagc
D.Yak	acatcgag	gtaagctgatat...104...-tgctttctggctttcgggca---	GCTGTTCTa	TATTTa	TTTATA	tatatgtacatat-gtacgta-----	.389...--tctgaccatag	aatccagc
	* ** **	** ** *	*	*	*	*****	*	** ** **

id=20599 gene=FBgn0260049 name=flr segment=chr3L.13406539_13407157.1 type=IN

Figure 191: CS=11.88



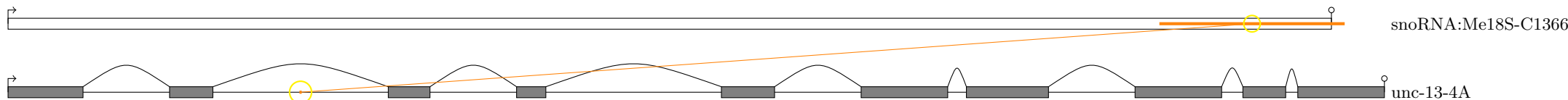
D.Mel	aatttaat	agttacttgatg---.30..	agtcgcaagatttggcattc	TTTTcc	TGTAGAAAG	ATAAGAACGGCC	aactgata---aa	ctaaat
D.Sim	aacttatt	agttacttgatg---.30..	agtcgcaagatttggcattc	TTTTc	GTGGAAAGAATAAGAACGGCC	aactgata---aa	ctaaat	gt
D.Sec	aatttatt	agttacttgatg---.30..	agtcgcaagatttggcattc	TTTTc	GTGGAAAGAATAAGAACGGCC	aactgata---aa	ttaa	atgt
D.Ere	gattcatt	agtttcttgatg---.38..	-----	agatttggcattc	TTTTc	GTGGAAAGAATAAGAACGGCC	aactgata---ac	ctaaat
D.Ana	ttctgttt	gattccttgatg---.46..	-----	attcatttcttgtagaaaga	ATAAGAACGGCC	aactgatg---aa	tctgtcca	
D.Gri	---tgtca	aattttgttacacat...63..	-----	attcatttcttgtagaaaga	ATAAGAACGGCC	aactgataaagaa	tgaatca	
D.Moj	---atatt	aatgtattgatgaat...52..	-----	gttcttatcttgtagaaaga	ATAAGAACGGCC	aactgatt---gt	tttatgc	
D.Per	tttgacg	aattttttgatg---.47..	-----	attcatttcttgtagaaaga	ATAAGAACGGCC	aactgata---aa	tcatttca	
D.Pse	tttgacg	aattttttgatg---.47..	-----	attcatttcttgtagaaaga	ATAAGAACGGCC	aactgata---aa	tcatttca	
D.Vir	gagtatat	agagccttaaat---.60..	-----	gttcatacttgtagaaaga	ATAAGAACGGCC	aactgatt---aa	tgcatat	
D.Yak	aatttatt	agtttcttgatg---.37..	-----	agatttggcattc	TTTTc	GTGGAAAGAATAAGAACGGCC	aactgata---aa	ctaaat
				*	*	*****		

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287.10509386.1 type=EN

D.Mel	atcagaag	gtaccatttgtt...562...	ccccta	aattatcta	atata---	GGTCaGTTCTTATcTTTTT	TATAct	AGAAg	gttaa	atgta	agctttg	ct...32...	tctatttcacag	atagaact		
D.Sim	atcagaag	gtaccatttgtt...562...	ccccta	aataatcta	atata---	GGTCaGTTCTTATcTTTTT	aTTACta	GAAAG	ttaa	atgta	agctttg	ct...30...	tatattttacag	gttgaact		
D.Sec	atcagaag	gtaccatttgtt...558...	ccccaa	aataatcta	atata---	GGTCaGTTCTTATcTTTTT	aTTACta	GAAAG	ttaa	atgta	agctttg	ct...30...	tctactttgcag	attgaact		
D.Ere	atcagaag	gtaccatttgtt...570...	-----	taaataatcta	atata---	GGTCaGTTCTTATcTTTTT	aTTAC	-----	ttgca	agttaa	aggtt	ta...76...	ttactttcacag	gttgaact		
D.Ana	acaaaag	gtagcgttatat...581...	-----	ctaaaacgtatttattt	gtgta---	GGTCaGTTCTTAT	-----	ctagta	---tcac	ctaaa	agtgta	-----	...57...	ctactccacag	attgaact	
D.Gri	atcaaaag	gtaaacctatta...637...	-----	tatatatttattatcat	atata---	GGTCaGTTCTTAT	-----	ctgact	---ta	atagata	aatata	-----	...469...	tataattgtag	gtggaact	
D.Moj	atcaaaag	gtattgcagagg...660...	-----	tctttaacat	---aat	catata	GGTCaGTTCTTAT	-----	ctagtc	---ta	acgga	agtaaa	-----	...233...	tacattttccag	gtggagct
D.Per	atcaaaag	gtagagttatgt...635...	-----	tagttctaggaatata	tatgaa	GGTCaGTTCTTAT	-----	ctgag	cat	catcagaa	agta	-----	...68...	ttattttcacag	atcgagct	
D.Pse	atcaaaag	gtagagttatgt...631...	-----	tagttctaggaatata	tatgaa	GGTCaGTTCTTAT	-----	ctgag	cat	catcagaa	agta	-----	...68...	ttattttcacag	atcgagct	
D.Vir	atcaaaag	gtattgtagcgc...635...	-----	tcttatacat	---at	atcatata	GGTCaGTTCTTAT	-----	caggcc	---ta	atgga	agttaa	-----	...233...	ctaccttcgag	gtggaact
D.Yak	atcagaag	gtaccatttgtt...573...	-----	taaataatcta	atata	gtgta---	GGTCaGTTCTTATcTTTTT	aTTAC	-----	tagaa	agttaa	atgcttaa	...65...	ttaaatcacag	gttgaact	
							*	*	*****					**	* ** *	

id=95886 gene=FBgn0037606 name=CG8032 segment=chr3R.4490472.4491158.1 type=IN

Figure 192: CS=14.74



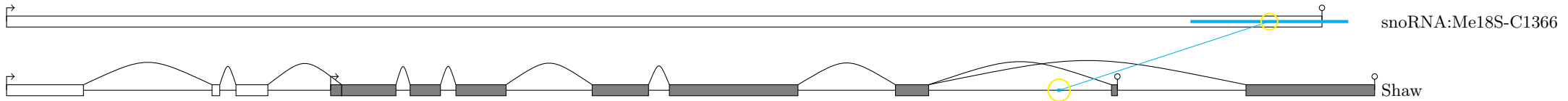
D.Mel	aatttaat	agttacttgatg---.47..ttcttttcctgtagaaagaa	TAAGaaCGGCcAACTgata---aa	ctaaat
D.Sim	aacttatt	agttacttgatg---.47..ttcttttcctgtgaaagaa	TAAGaaCGGCcAACTgata---aa	ctaaatgt
D.Sec	aatttatt	agttacttgatg---.47..ttcttttcctgtgaaagaa	TAAGaaCGGCcAACTgata---aa	ttaaagt
D.Ere	gattcatt	agtttcttgatg---.48..ttcttttcctgtgaaagaa	TAAGaaCGGCcAACTgata---ac	ctaaatgt
D.Ana	ttctgttt	gatttcttgatg---.47..ttcatttctgtagaaagaa	TAAGaaCGGCcAACTgatg---aa	tctgtcca
D.Gri	---tgtca	aatthtttacacat..64..ttcttttcctgtagaaagaa	TAAGaaCGGCcAACTgataaaagaa	tgaaatca
D.Moj	---atatt	aatgtattgatgaat..53..ttcttatctgtagaaagaa	TAAGaaCGGCcAACTgaTTGTT--	-ttattgc
D.Pse	tttgacag	aatthtttgatg---.48..ttcttttcctgtagaaagaa	TAAGaaCGGCcAACTgata---aa	tcatttta
D.Vir	gagtatat	agagccttaaat---.61..ttcatatctgtagaaagaa	TAAGaaCGGCcAACTgatt---aa	tgcatat
D.Yak	aatttatt	agtttcttgatg---.47..ttctattcctgtgaaagaa	TAAGaaCGGCcAACTgata---aa	ctaaatct
		* *	*** ** ** *	*****

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287_10509386_1 type=EN

D.Mel	aattccgg	gtaagtcgaaag...2043...-----atcatcaacgc-cggcgacaa	AGTTaaGCCGCTTA	-----gctgttttcctgctgagt...675...cccttcacacag	agttcagg
D.Sim	aattccgg	gtaagtggaaag...2053...-----atcatcaacgc-cggcgacaa	AGTTaaGCCGCTTA	-----gcagttttcctgctgagt...689...ttcccttcacacag	cgttcagg
D.Sec	aattccgg	gtaagtccaaag...2056...-----atcatcaacgc-cgacgacaa	AGTTaaGCCGCTTA	-----gctgttttcctgctgagt...691...ttcccttcacacag	cgttcagg
D.Ere	aattccgg	gtaagtccgag...2026...-----atcatcaacgc-cggcgacaa	AGTTaaGCCGCTTA	-----gctgttttcctgctgagt...684...tttcgcttcacag	agttcagg
D.Ana	aattccgg	gtgagtcctgtg...1936...-----tcatcaacgctcagcgacaa	AGTTaaGCCGCTTA	-----gctgttttcctcctctgctga...685...ttctctgtacag	tgttcagg
D.Gri	acatcggg	gtaagtaaacgc...2296...-----tctggcaaggc-tggcgacaa	AGTTaaGCCGCTTA	cgcgcttagcgcgtgcccatt-----...564...tatcgtgcacag	tggtcagg
D.Moj	aattctgg	gtaagtgtgagg...2462...aaaaatctgaaaacgc-tggc	AACAAAGTTaaGCCGCTTA	gacgcttagcgcgtgcccatt-----...605...atgtctccacag	cggtcagg
D.Pse	aattccgg	gtaagtccgaa...2358...-----atcatcaacgc-cggcgacaa	AGTTaaGCCGCTTA	-----gctgtttccctgctgagt...619...ttttgatacag	agttcagg
D.Vir	aattctgg	gtaagtgttgac...2597...-----acgcaaatgc-tggcaacaa	AGTTaaGCCGCTTA	ggcgcttagcgcgtgcccatt-----...609...acatacaaacag	ggtcagg
D.Yak	aattccgg	gtaagttcaaaa...2087...-----atcatcaacgc-cggcgacaa	AGTTaaGCCGCTTA	-----gccgttttcctgctgagt...703...tttgcttcacag	agttcagg
	* ** *	** ** *	** ** *	** * * *	****

id=10577 gene=FBgn0035756 name=unc-13-4A segment=chr3L.7272458_7275253_-1 type=IN

Figure 193: CS=10



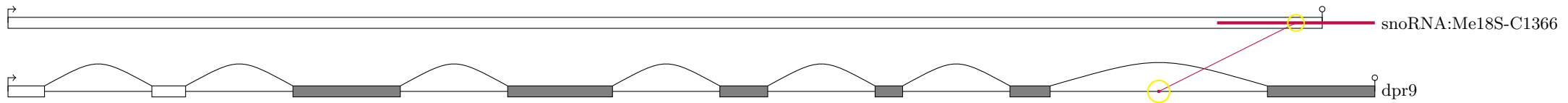
D. Mel	aatttaat	agttacttgatg	---.44	----	gcattcttttctgtagaaa	GAATaa	GAACGGCCAACTGA	-taa	---	a	ctaaattt
D. Sec	aatttatt	agttacttgatg	---.37	----	agatttgcattcttttct	GTGGAaa	GAATaa	GAACGGCCAACTGA	-taa	---	ttaaattg
D. Ere	gattcatt	agtttcttgatg	---.38	----	agatttggcattcttttct	GTGGAaa	GAATaa	GAACGGCCAACTGA	-taa	---	ctaaatgt
D. Ana	ttctgttt	gattccttgatg	---.44	----	gcattcatttctgtagaaa	GAATAAGA	ACGGCCAACTGA	tGAAT	---	---	ctgtcca
D. Gri	---tgtca	aattttgttacacat	...61	----	gcattcttttctgtagaaa	GAATaa	GAACGGCCAACTGA	-taa	aga	---	tgaatca
D. Moj	---atatt	aatgtattgatgaat	...50	----	gcgttcttatctttagtagaaa	GAATaa	GAACGGCCAACTGAT	tg	---	---	tttattgc
D. Per	tttgacag	aatttttgatg	---.45	----	gcattcttttctgtagaaa	GAATaa	GAACGGCCAACTGA	-taa	atca	---	tt---tca
D. Pse	tttgacag	aatttttgatg	---.45	----	gcattcttttctgtagaaa	GAATaa	GAACGGCCAACTGA	-taa	atca	---	tt---tta
D. Vir	gagtatat	agagccttaaat	---.58	----	gagttcatatctttagtagaaa	GAATAAGA	ACGGCCAACTGAT	tAATG	---	---	cattat
D. Yak	aatttatt	agtttcttgatg	---.37	----	agatttggcattctattcct	GTGGAaa	GAATaa	GAACGGCCAACTGA	-taa	---	ctaaatct
						**	***	**	***	*****	*****

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287.10509386.1 type=EN

D. Mel	caagtcag	gtgagtcctctga	...1639	----	tatcg-tgtacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	----	cttcgtagcagtgataag	-----	...	167	...	ttgtatttcag	atatggcc		
D. Sec	caagtcag	gtgagtcctctga	...1647	----	tatcg-tgtacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	TTCGT	----	tagcagtgataagatacta	...	160	...	ctgtatttcag	atatggcc		
D. Ere	caagtcag	gtgagtcctctga	...1657	----	tatcg-tgtacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	TTCGT	----	tagcagtgataagatacta	...	162	...	ctgtatttcag	atatggcc		
D. Ana	caagtcag	gtgagtcctctga	...1796	----	atataatcg-tgtacgtggtt	GTTT	TCAGT	tTGGC	CGTTCTT	cGTTT	----	cttcgtagcagtgataag	-----	...	1092	...	ctgtatttcag	atatggcc	
D. Gri	caagtcag	gtgagtgcttga	...1619	----	catcg-tatacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	ggttcgt	---	tccaaaattatcta	-----	...	262	...	aactttttcag	atatggcc	
D. Moj	caagtcag	gtgagtgcttga	...1729	----	tattgatatacgtggttct	ATCAGT	tTGGC	CG--	TTCGTTT	ggttcgt	---	tccaaaattatcta	-----	...	239	...	ttgtatttcag	atatggcc	
D. Per	caaatcag	gtgagtcgtcct	...1914	----	tatcg-tatacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	----	cttcgtagcagtgataag	-----	...	225	...	ctgtatttcag	atatggcc		
D. Pse	caaatcag	gtgagtcgtcct	...2012	----	tatcg-tatacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	----	cttcgtagcagtgataag	-----	...	225	...	ctgtatttcag	atatggcc		
D. Vir	caagtcag	gtgagtgcttga	...1705	----	attgcgcacg-tatacgtgt	TGTT	ATCAGT	tTGGC	CG--	TTCGTTT	ggttcgt	---	tccaaaattatcta	-----	...	277	...	ttgtatttcag	atatggcc
D. Yak	caagtcag	gtgagtccttga	...1717	----	tatcg-tgtacgtggttct	TCAGT	tTGGC	CG--	TTCGTTT	TTCGT	----	tagaagtgataagataact	...	167	...	ctgtatttcag	atatggcc		
	***	****	*****		**	*	*****	*****	*****	*****		*	*			*	*****	*****	

id=13707 gene=FBgn0003386 name=Shaw segment=chr2L.3723765.3725655.1 type=IN

Figure 194: CS=10



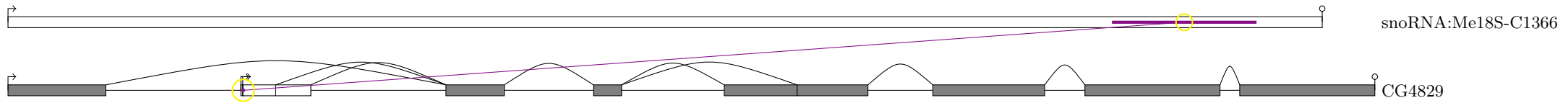
D.Mel	aatttaat	agttacttgatg---.46...-attcttttcctgtagaaagaATAAgaACGGcCAACTGATA---aa	ctaaattt
D.Sec	aatttatt	agttacttgatg---.46...-attcttttcctgtggaagaATAAgaACGGcCAACTGATAaaATTA	---aatgt
D.Ere	gattcatt	agtttcttgatg---.47...-attcttttcctgtggaagaATAAgaACGGcCAACTGATA---ac	ctaaatgt
D.Ana	ttctgttt	gattcttgatg---.46...-attcatttcttgtagaaagaATAAgaACGGcCAACTGATG---aa	tctgtcca
D.Gri	---tgtca	aatthttgttacacat...69...-----ttcttgtagaaagaataagaACGGcCAACTGATAaagaa	tgaaatca
D.Moj	---atatt	aatgtattgatgaat...51...cgttcttatcttgtagaaagATAAgaACGGcCAACTGAT---tgt	tttattgc
D.Per	tttgcacg	aatthtttgatg---.47...-attcttttcctgtagaaagaATAAgaACGGcCAACTGATA---aa	tcatttca
D.Pse	tttgcacg	aatthtttgatg---.47...-attcttttcctgtagaaagaATAAgaACGGcCAACTGATA---aa	tcatttta
D.Vir	gagtataat	agagccttaaat---.66...-----atcttgtagaaagaataagaACGGcCAACTGAT---taa	tgatttat
D.Yak	aatttatt	agtttcttgatg---.46...-attctattcctgtggaagaATAAgaACGGcCAACTGATA---aa	ctaaatct
		* * * * * ** ** *	

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287.10509386.1 type=EN

D.Mel	gctcaatg	gtaagtaaaatc...1714...---tcctttgcgactttcacaaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...2067...-----taaatataacag	gtgtttcc
D.Sec	gctcaatg	gtaagtaaaatc...1682...acttcctttgcgactttcacTAATGTCAAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...1963...-----taaatataacag	gtgtttcc
D.Ere	gctcaatg	gtaagtaaaatc...1722...---tcctttgcgactttcactaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...1997...gcaataaagatgtaaatata---	-----
D.Ana	gctcaatg	gtaagtaaaatc...2482...---tcctttgcgactttcactaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...1413...-----taaatataacag	gtgtttcc
D.Gri	gctgaatg	gtaagtaaaatc...2429...---tcctttgcgactttcactaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...1524...-----taaatataacag	gtgtttct
D.Moj	gctgaatg	gtaagtaaaatc...3107...---cctttgcgactttcactaatGTCAAGTTGTCGTcgTTGT	gtcgcaaccgtgtctgctag...1092...-----taaatataacag	gtgtttct
D.Per	gctcaatg	gtaagtaaaata...2548...---tcctgtgcgactttcactaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...1826...-----taaatataacag	gtgtttct
D.Pse	gctcaatg	gtaagtaaaata...2547...---tcctgtgcgactttcactaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgcta-...1873...-----taaatataacag	gtgtttct
D.Vir	gctgaatg	gtaagtaaaatc...2028...---cctttgcgactttcgctaGTCAAGTTGTCGTcgTTGT	cgcgagcaaccgtgt-...1973...-----taaatataacag	gtgtttct
D.Yak	gctcaatg	gtaagtaaaatc...1691...---tcctttgcgactttcactaaTGTC AAGTTGTCGTcgTTGT	cgcgagcaaccgtgtctgta-...1986...-----taaatataacag	gtgtttcc
	*** **	*****	*** ** *	*****

id=91922 gene=FBgn0038282 name=dpr9 segment=chr3R.10883316.10887180.-1 type=IN

Figure 195: CS=10



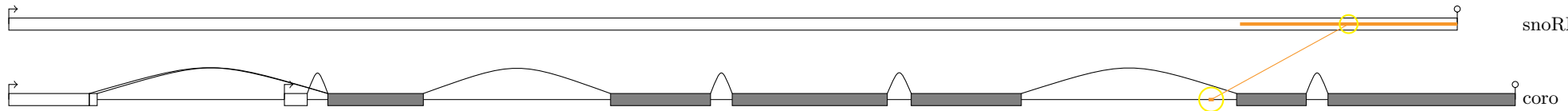
D.Mel	aat	taata	agttacttgatg	---	44	..	gcattcttttcctgtagaaa	GAATAAGAACGGCC	aa	CTGAT	---	aaa	ctaaat						
D.Sim	aact	tatt	agttacttgatg	---	44	..	gcattcttttcctgtagaaa	GAATAAGAACGGCC	aa	CTGAT	---	aaa	ctaaat						
D.Sec	aatt	tatt	agttacttgatg	---	44	..	tcattcttttcctgtagaaa	GAATAAGAACGGCC	aa	CTGAT	---	aaa	ttaa						
D.Ere	gatt	catt	agtttcttgatg	---	45	..	gcattcttttcctgtagaaa	GAATAAGAACGGCC	aa	CTGAT	---	aac	ctaa						
D.Ana	ttct	gttt	gattcttgatg	---	44	..	gcattcatttctgtagaaa	GAATAAGAACGGC	ca	actgat	---	gaa	tctgt						
D.Gri	---	tg	tca	aat	ttt	gtt	acacat	..	61	..	gcattcttttcctgtagaaa	GAATAAGAACGG	cca	actg	ataa	agaa	tg	aaat	ca
D.Moj	---	at	att	aat	gtatt	gat	gaat	..	50	..	gcgttcttatctgtagaaa	GAATAAGAACGG	cca	actgat	---	tgt	tt	tatt	gc
D.Per	ttt	gcag	aat	tttt	tgatg	---	45	..	gcattcttttcctgtagaaa	GAATAAGAACGG	cca	actg	ataa	atca	tt	---	tca		
D.Pse	ttt	gcag	aat	tttt	tgatg	---	45	..	gcattcttttcctgtagaaa	GAATAAGAACGG	cca	actg	ataa	atca	tt	---	tta		
D.Vir	gag	tata	ag	agc	ct	taaat	---	58	..	gagttcatatctgtagaaa	GAATAAGAACGG	cca	actgat	---	taa	tg	catt	at	
D.Yak	aatt	tatt	agtttcttgatg	---	44	..	gcattcttttcctgtagaaa	GAATAAGAACGGCC	aa	CTGAT	---	aaa	ctaa	atct					
			*	*			***	**	***	*****									

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287.10509386.1 type=EN

D.Mel	-ctg	caatc	gta	agtt	cacct	..	4769	..	----	gcgccagcgtcgtcgtcatc	GTTAG	GGCCGTT	CTT	a	ATT	c		
D.Sim	-ctg	ctata	gta	agtt	aatcg	..	4944	..	----	gcgccagcgtcgtcgtcatc	GTTAG	GGCCGTT	CTT	a	ATT	c		
D.Sec	act	gc-atc	gta	agtt	cnnnn	..	4559	..	----	gcgccagcgtcgtcgtcatc	GTTAG	GGCCGTT	CTT	a	ATT	c		
D.Ere	-ctg	caatc	gta	agtt	cacct	..	4641	..	----	gcgccagcgtcgtcgtcatc	GTTAG	GGCCGTT	CTT	a	ATT	c		
D.Ana	-ctg	caatc	gta	agtc	cctggc	..	4951	..	----	cggcgcgtcatcgtagcc	----	GCCGTT	CTT	a	ATT	c		
D.Gri	-ctg	caaac	gta	agt	tactca	..	4887	..	agtc	cgccac	-aac	gcgtc	----	CCGTT	CTT	a	ATT	c
D.Moj	-ctg	caaac	gta	agtc	cattta	..	4952	..	agac	cgccgc	-aac	gcgtc	----	CCGTT	CTT	a	ATT	c
D.Per	-ctg	caatc	gta	agtc	ccagaa	..	4747	..	gcct	cgccgc	gaacc	gcgtc	----	CCGTT	CTT	a	ATT	c
D.Pse	-ctg	caatc	gta	agtc	ccagaa	..	4756	..	gcct	cgccgc	gaacc	gcgtc	----	CCGTT	CTT	a	ATT	c
D.Vir	-ctg	caaac	gta	agt	tactct	..	4952	..	agac	cgccgc	-aac	gcgtc	----	CCGTT	CTT	a	ATT	c
D.Yak	-ctg	caatc	gta	agtt	cgccct	..	4468	..	gct	cgccagcgtcgtcgtc	----	GTTAG	GGCCGTT	CTT	a	ATT	c	
	****	*	*****				***	**	*	*	**	****	*****					

id=122875 gene=FBgn0030796 name=CG4829 segment=chrX.16706095.16710908.1 type=IN

Figure 196: CS=11.88



```

D.Mel aatthaat agttacttgatg---.45...-----cattctttcctgtagaaagAATAAGAACGgcCAACTGATAA---a ctaaattt---
D.Sim aacttatt agttacttgatg---.45...-----cattctttcctgtagaaagAATAAGAACGgcCAACTGATAA---a ctaaattt---
D.Ere gattcatt agtttcttgatg---.46...-----cattctttcctgtagaaagAATAAGAACGgcCAACTGATAA---c ctaaattt---
D.Ana ttctgttt gattctttgatg---.45...-----cattctttcctgtagaaagAATAAGAACGgcCAACTGATAA---a tctgtcca---
D.Gri ---tgtca aatthttttacacat...52...-aggcggttagcattcttttTTGTAGAAAGAATAAGAACGgcCAACTGATAAaga tgaatca---
D.Moj ---atatt aatgtattgatgaat...40...agggtttctagcgttcttatCTGTAGAAAGAATAAGAACGgcCAAC-----tga ttgttttatgc
D.Per tttgcacg aatthttttgatg---.45...-----gcattctttcctgtagaaaGAATAAGAACGgcCAACTGATAA---a tcatttca---
D.Pse tttgcacg aatthttttgatg---.45...-----gcattctttcctgtagaaaGAATAAGAACGgcCAACTGATAA---a tcatttca---
D.Vir gagtatat agagccttaaat---.58...-----gagttcatatctttagtagaaaGAATAAGAACGgcCAAC-----tga ttaatgcattat
D.Yak aatthatt agtttcttgatg---.45...-----cattctttcctgtagaaagAATAAGAACGgcCAACTGATAA---a ctaaattt---
          * *                               *** ** ** *****

```

id=87563 gene=FBgn0082951 name=snoRNA:Me18S-C1366 segment=chr2R.10509287.10509386.1 type=EN

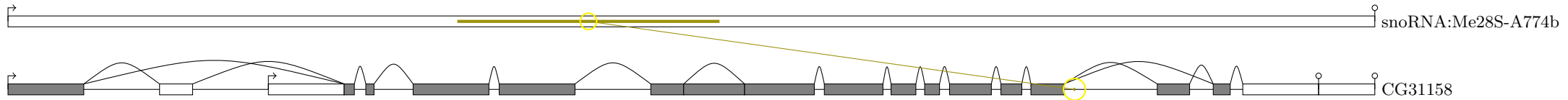
```

D.Mel cgctcaaa gtaagtggctaa...624...cacgcgaatgc-gcgtggcgcTTGTCGTTGTGTTCaTTGTT-----gtttgttgttctgaaacg-----..36...tccattgtacag ggtggcta
D.Sim cgctcaaa gtaagtggctgg...632...cacgcgaatgc-gcgtggcgcTTGTCGTTGTGTTCaTTGTT-----gcttgttgttctgaaacg-----..36...tccattgtacag ggtggcta
D.Ere cgctcaaa gtaagtgcaga...598...cacgcgaatgc-gcgtggcgcTTGTCGTTGTGTTCaTTGTT-----gtttgttgttctgaaacg-----..36...tccattgtacag ggtggcta
D.Ana cgctcaaa gtaagtggccct...710...aacacgcacgc-gcgtggcgcTTGTCGTTGTGTTCaTTGTT-----gcttgttgttctgaaacg-----..36...tctattgtcag ggtggcta
D.Gri cgctcaaa gtaagtggcacc...982...-acacgcacgcacgcgtggcgcTTGTCGTTGTGTTCTTTGTGTAAGcccat--caatctgaacagccta---.25...tccattgtcag ggcggcta
D.Moj cgctcaaa gtaagtggcgtc...539...-----cacgctgcgtggcgttgttGTTGTGTTCTTTGTGTAAGcccat--caatctgaacagccta---.28...tccattgtcag ggtggcta
D.Per cgctcaaa gtaagtggcat...490...-atacgcacgcgcgtggcgcTTGTCGTTGTGTTCaTTGTT-----cttgttattccgaaacga-----..35...tctattgtacag ggtggcta
D.Pse cgctcaaa gtaagtggcat...489...-atacgcacgcgcgtggcgcTTGTCGTTGTGTTCTTTGTGTAAGcccat--caatctgaacagccta---.35...tctattgtacag ggtggcta
D.Vir cgctcaaa gtaagtggccc...642...-----cacgctgcgtggcgttgttGTTGTGTTCTTTGTGTAAGcccat--caatctgaacagccta---.33...tccattgtacag ggtggcta
D.Yak cgctcaaa gtaagtggcca...594...cacgcggtgc-gcgtggcgcTTGTCGTTGTGTTCaTTGTT-----gcttgttgttctgaaacg-----..36...tccattgtacag ggtggcta
**** ** ***** * ** ***** ***** ** ***** ** *****

```

id=39707 gene=FBgn0033109 name=coro segment=chr2R.2751039.2751782.-1 type=IN VIEW

Figure 197: CS=10.8



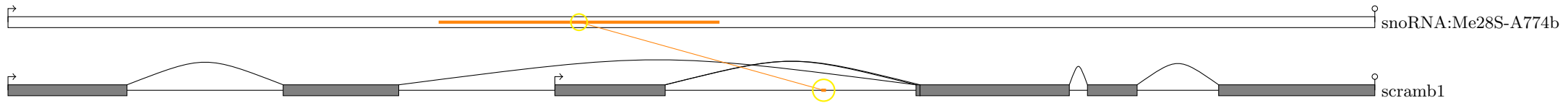
D. Mel	gaaaaaac	ctcttggtgatgaaa	TTAAT	tg	GTCCG	TGTTTATG	aat	ttt-ccattgattataaa	attctccaattactg	-----	accaa	gcaaggct---	
D. Sec	gaaaaaac	ctcttggtgatgaaa	TTAAT	tg	GTCCG	TGTTTATG	aat	ttt-ccattgattataaa	attctccaattactg	-----	acaaa	gcaaggct---	
D. Ere	cggaaaaac	ctcttggtgatgaaa	TTAAT	tg	GTCCG	TGTTTATG	aat	ttt-ccattgattataaa	attctccaattactg	-----	aacaa	gcaaggct---	
D. Ana	cgaagcc	gttttggtgatgaaa	TTAAT	tg	GTCCG	TGTT	tat	gaat	tttaacattgattagaa	accttccaattactg	gaaaacttttaaaa	gcaaggcg---	
D. Moj	gacagtgt	ttcactatgatgaaa	TTAAT	tg	GTCCG	TGTT	tat	gaat	tttaacattgattagaa	accttccaattactg	-----	agc--aaattctttg	
D. Per	cgatattt	gggtttctgatgaaa	TTAAT	tg	GTCCG	TGTT	tat	gaat	tttaacattgattagaa	accttccaattactg	-----	acaaa	tcaaggct---
D. Pse	cgatattt	gggtttctgatgaaa	TTAAT	tg	GTCCG	TGTT	tat	gaat	tttaacattgattagaa	accttccaattactg	-----	acaaa	tcaaggct---
D. Vir	taaacaat	tttacattgatgaaa	TTAAT	tg	GTCCG	TGTT	tat	gaat	tttaacattgattagaa	accttccaattactg	-----	agtta	aaagtgct---
D. Wil	tttataat	agttatttgatgaaa	TTAAT	tg	GTCCG	TGTT	tat	gaat	tttaacattgattagaa	accttccaattactg	-----	attgt	ttaatagt---
D. Yak	cgtcaaac	ctcttggtgatgaaa	TTAAT	tg	GTCCG	TGTT	ta	gaat	tttaacattgattagaa	accttccaattactg	-----	aacaa	gcaaggct---
												*	

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	acgaacag	gtacagtcagcagcaacgcccagcggcag	---	cagctcctcgtcctc	-----	cgccca	TGTGc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1156..	tcaatccttacag	atggttcg
D. Sec	acgaacag	gtacagtcagcagcaacgcccagcggcag	---	cagctcctcgtcctc	-----	cgccca	TGTGc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1144..	tcaatccttacag	atggttcg
D. Ere	acgaacag	gtacagtcagcagcaacgcccagcggcag	---	cagctcctcgtcctc	-----	cgccca	TGTGc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1138..	tcaatccttacag	atggttcg
D. Ana	gcgaacag	gtacagtcagcatccacgtgctagcggag	---	cagctcgtcgtcctcctcgtcggcaatgttc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1162..	tcaatccttacag	atggctcg			
D. Moj	aacagcag	gtacgggtcaacaacagcagccag	-----	gaactcctcaactag	-----	cgggcaatgcc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1042..	gaatttttacag	atggttcg	
D. Per	tcgaacag	gtacagtcagcaaccacgtgctagcggcag	---	cagctcctcatcctc	---	ggcggcaatgtcc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1263..	tcaatccttacag	atggctcg	
D. Pse	tcgaacag	gtacagtcagcaaccacgtgctagcggcag	---	cagctcctcatcctc	---	ggcggcaatgtcc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1270..	tcaatccttacag	atggctcg	
D. Vir	actagcag	gtatagtcaacaacagcggcag	-----	gaactcctcctctag	-----	cgggcaatgcc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1076..	aaatttttacag	atggttcg	
D. Wil	acgaacag	gtacagtcagcaacaatgcccagcagcagtaataactcctcatcctc	---	tggcaatgtcc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1281..	caatttttacag	atggttcg			
D. Yak	acgaacag	gtacagtcagcagcaacgcccagcggcag	---	cagctcctcgtcctc	-----	cgccatgtgc	AGCAGGACATTGG	ctgacgcgtaatgggagttt	..1161..	tcaatccttacag	atggttcg	

id=131966 gene=FBgn0051158 name=CG31158 segment=chr3R.18431293.18432549.1 type=IN

Figure 198: CS=10



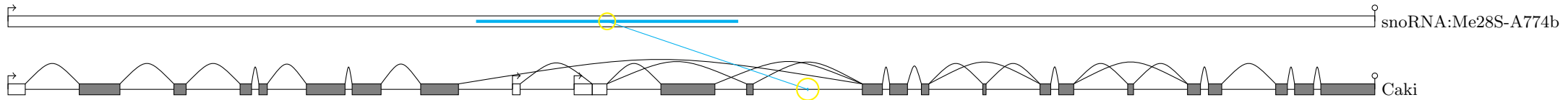
D. Mel	ggaaaaac	ctcttggtgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaattt-ccattgattataaattctccaattactg-----	accaa	gcaaggct
D. Sec	gaaaaaac	ctcttggtgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaattt-ccattgattataaattctccaattactg-----	acaaa	gcaaggct
D. Ere	cggaaaaac	ctcttggtgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaattt-ccattgattataaattctccaattactg-----	acaaa	gcaaggct
D. Ana	cgaaaagcc	gttttggtgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaattt-ccattgattataaattctccaattactg-----	gaaaaacttttaaaaa	gcaaggcg
D. Gri	aaacagtt	ttttcattgatgaga	TTAATTGGTCcGTGTT	-----	tatgaattttacattgattagaaccttccaattactg-----	agtaa	ctagtgtt
D. Moj	gacagtgt	ttcactatgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaatttaacattgattagaaccttccaattactg-----	agcaa	attctttg
D. Per	cgatattt	gggtttctgatgaaa	TTAATTGGTCcGTGTTTATGAATT	ta-----	cattgattataaattctccaattgctg-----	acaaa	tcaaggct
D. Pse	cgatattt	gggtttctgatgaaa	TTAATTGGTCcGTGTTTATGAATT	ta-----	cattgattataaattctccaattgctg-----	acaaa	tcaaggct
D. Vir	taacaat	tttacattgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaattt-atattgattcaaaccttccaattactg-----	agtta	aaagtgtt
D. Wil	tttataat	agttatttgatgaaa	TTAATTGGTCcGTGTT	-----	tatgaattt-aagttgattaaaaacttccaattactg-----	attgt	ttaatagt
D. Yak	cgtcaaac	ctcttggtgatgaaa	TTAATTGGTCcGTGTT	-----	taagaattt-ccattgattataaa-taaccaattactg-----	acaaa	gcaaggct
			*****		**	***** **	*

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	gacaggag	gtaaggaagtca...461...	ggccgagtaattgtgtcgct-----	GACATtGACCAATTGA	cacactggccactgaacgca...263...	ttatatttcag	gagactgg
D. Sec	gacaggag	gtaaggaagtca...418...	ggccgagcaattgtgtcgct-----	GACATtGACCAATTGA	cacactggccactgaacgca...249...	ttatatttcag	gagactgg
D. Ere	gacaggag	gtaaggagatcc...379...	ggccgagcaattgtgtcgct-----	GACATtGACCAATTGA	cacactggcaactgaacgag...252...	ccatttttcag	gagatttg
D. Ana	gacaagag	gtgagagaaggg...279...	tgccagtaattgtaaaggc-----	GACATtGACCAATTGA	cacactggcgcgagatgcc...89...	ttgtttccttag	gagactgg
D. Gri	gatagaag	gtgagattgatc...396...	-----aattggcacgatgacacaac--	GACATtGACCAATTGA	cacgctcttctgcttataaaa...87...	attttaaacag	gagactgg
D. Moj	gacaggag	gtgagccgaatc...307...	-----gcaattgaagcgatg--acagc--	GACATtGACCAATTGA	cacgcttttgggtggtcg...114...	actccgcaacag	gagactgg
D. Per	gacagaag	gtgagctggatg...269...	cttcaattagtgaggccagc AATTgTGTGGc	GACATtGACCAATTGA	cacactggcaacgagataaa...74...	gccctgttctag	gagactgg
D. Pse	gacagaag	gtgagctggaac...262...	cttcaattagtgaggccagc AATTgTGTGGc	GACATtGACCAATTGA	cacactggcaacgagataaa...74...	gccctgttctag	gagactgg
D. Vir	gacaggag	gtgagacaaatc...337...	-----gcaattggcacgatg--acaac--	GACATtGACCAATTGA	cacgcttctgtggcggtca...82...	attttcaatag	gagactgg
D. Wil	gataaaag	gtgagaaagcaa...320...	-----aagcgaagcggagg--agaat--	GACATtGACCAATTGA	cacactgaaaactaaagaag...99...	ttatgtcttttag	gagactgg
D. Yak	gacaggag	gtaagcaggtca...518...	ggccgagcaattgtgcccgt-----	GACATtGACCAATTGA	cacactggcaactgaacgag...163...	atatttttcag	gagactgg
	** * **	** **		*****	**	**	** * **

id=107829 gene=FBgn0052056 name=scramb1 segment=chr3L.10215202.10216005.-1 type=IN VIEW

Figure 199: CS=16.83



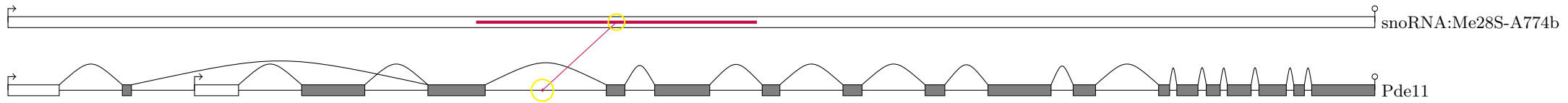
D. Mel	ggaaaaac	ctctt---GTTGatGAAATTAATTggTCCGtGTTT	atgaa-tttccattgattataaattctccaattactg-----	accaa	gcaaggct
D. Sec	gaaaaaac	ctctt---GTTGatGAAATTAATTggTCCGtGTTT	atgaa-tttccattgattataaattctccaattactg-----	acaaa	gcaaggct
D. Ere	cggaaaaac	ctctt---GTTGatGAAATTAATTggTCCGtGTTT	atgaa-tttccattgattataaattctccaattactg-----	aacaa	gcaaggct
D. Ana	cgaagc-	---CGTttGTTGatGAAATTAATTggTCCGtGTTT	atgaa-tttccattgattataaactttccaattactgaaaacttttaaaa		gcaaggcg
D. Gri	-aacagt	tttt---cattgatGAGATTAATTggTCCGtGTTT	atgaattttacattgattagaaccttccaattactg-----	agtaa	ctagtgtt
D. Per	----cgat	atttgggtttctgaTGAATTAATTggTCCGtGTTT	atgaa-tttacattgattataaattctccaattgctg-----	acaaa	tcaaggct
D. Pse	----cgat	atttgggtttctgaTGAATTAATTggTCCGtGTTT	atgaa-tttacattgattataaattctccaattgctg-----	acaaa	tcaaggct
D. Vir	taacaa-	tttta---cattgatGAAATTAATTggTCCGtGTTT	atgaa-tttatattgatttcaaaccttccaattactg-----	agtta	aaagtgtt
D. Wil	ttataat	agtta---tttgatGAAATTAATTggTCCGtGTTT	atgaa-tttaagttgattaaaaattctccaattactg-----	attgt	ttaatagt
D. Yak	cgtcaaac	ctctt---GTTGatGAAATTAATTggTCCGtGTTT	aagaa-tttccattgattataaaa-taaccaattactg-----	aacaa	gcaaggct
		*****	*****	*****	*

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	aacgacat	gtaagattattt...4437...atgt-atgtggcaggcgt-ggcAAATCGGA-AATTtAATTTC	CAGC	caaacgagcccttcacatg-----	...464...tccttttgcag	gctctgct
D. Sec	aacgacat	gtaagattattt...4472...-tatggtgaggcaggcgt-ggcAAATCGGA-AATTtAATTTC	CAGC	caaacgagcccttcacatg-----	...429...tgcttttgcag	gctctgct
D. Ere	aacgacat	gtaagattattt...4428...atgt-atgtggcaggcgt-ggcAAATCGGA-AATTtAATTTC	CAGC	caaacgagcgttccacagg-----	...473...tgcttttgcag	gctctgct
D. Ana	aacgacat	gtaagattattt...4528...atgt-atgtggcaggcgt-ggcAAATCGGA-AATTtAATTTC	CAAC	AACG-agccgctcgacc-gcattgct...368...ttgactttccag		gcactgct
D. Gri	aacgacat	gtaagattaatt...4765...atat-atgagtcaggcat-agaAAATCGGA-AATTtAATTTC		---cagagaaagtgactttgtaa-----	...140...gctctttgacag	gcgctgct
D. Per	aacgacat	gtaagattattt...4833...-tgt-atgtggcaggcgtgggcAAATCGGA-AATTtAATTTC		-----gccgcttagccaggcataat...72...tctctctgcag		gccctgct
D. Pse	aacgacat	gtaagattattt...4833...-tgt-atgtggcaggcgtgggcAAATCGGA-AATTtAATTTC		-----gccgcttagccaggcataat...72...tctctctgcag		gccctgct
D. Vir	aacgacat	gtaagattaatt...4776...atat-atgagacaggcat-agcAAATCGGA-AATTtAATTTC		---cacagaaagtggctttgaaa-----	...130...gttgttcgacag	gcgctgct
D. Wil	aacgacat	gtaagattattt...4696...atat-atgtgaagcgt-tgaAAATCGGA-AATTtAATTTC		cacacacaaaagtggcttt-----	...210...aactaacaacag	gctctgct
D. Yak	aacgacat	gtaagattattt...4454...atgt-atgtggcaggcgt-ggcAAATCGGA-AATTtAATTTC	CAGC	caaacgagctggatggtgtg-----	...447...tctgctttgcag	gctctgct
	*****	*****	*			*** ** *

id=126356 gene=FBgn0013759 name=Caki segment=chr3R.17617869.17629050.-1 type=IN

Figure 200: CS=10



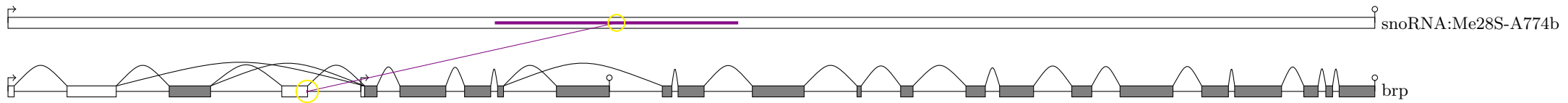
D. Mel	----ggaaaaac	ctct----tgttga	TGAAat	TAATTgg	TCCGt	GTTTATG	-aatttcattgattataaattctccaattactg-----	accaa	gcaaggct
D. Sec	----gaaaaaac	ctct----tgttga	TGAAat	TAATTgg	TCCGt	GTTTATG	-aatttcattgattataaattctccaattactg-----	acaaa	gcaaggct
D. Ere	----cgaaaaac	ctct----tgttga	TGAAat	TAATTgg	TCCGt	GTTTATG	-aatttcattgattataaattctccaattactg-----	aacaa	gcaaggct
D. Ana	----cgaaagcc	gttt----tgttga	TGAAat	TAATTgg	TCCGt	GTTTATG	-aatttcattgattataaactttccaattactgaaaaacttttaaaaa		gcaaggcg
D. Gri	----aacagtt	tttt----cattga	TGAGATTAATT	gg	TCCGt	GTTTATG	Aattttacattgattagaaaccttccaattactg-----	agtaa	ctagtgtt
D. Moj	----gacagtt	gtttcactatgatgaaa	---TTAATT	gg	TCCGt	GTTTATG	Aatttaacattgattagaaaccttccaattactg-----	agcaa	attctttg
D. Per	-----cgat	atttgggtttctgat	-GAAAt	TAATTgg	TCCGt	GTTTATG	-aatttacattgattataaattctccaattgctg-----	acaaa	tcaaggct
D. Pse	-----cgat	atttgggtttctgat	-GAAAt	TAATTgg	TCCGt	GTTTATG	-aatttacattgattataaattctccaattgctg-----	acaaa	tcaaggct
D. Vir	----taacaa-	tttta----cattga	TGAAATTAATT	gg	TCCGt	GTTTATG	-aatttatattgatttcaaaccttccaattactg-----	agtta	aaagtgct
D. Wil	tttataatagtt	atttg-----	ATGAAAt	TAATTgg	TCCGt	GTTTATG	-aatttaagttgattaaaaacttccaattactg-----	attgt	ttaatagt
D. Yak	----cgtaaac	ctct----tgttga	TGAAat	TAATTgg	TCCGt	GTTTA	-agaatttcattgattataaa-taaccaattactg-----	aacaa	gcaaggct
					*	*			*

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	tttataag	gcaagtcgaagt...406...	--cgtggatggctcgtttccgc	CATAAACCGGAAATTG	ccTTTG	-----ccacagcagg	---acatctaggg...766...	tatttcccacag	gaaagcca
D. Sec	tttataag	gcaagtcgaatt...360...	--cgtggatggctcgtttccgc	CATAAACCGGAAATTG	ccTTTG	-----ccacagcagg	---acatctaggg...810...	tatttcccacag	gaaagcca
D. Ere	tttataag	gcaagtcgaagc...411...	--cgtggatggctcgtttccgc	CATAAACCGGAAATTG	ccTTTG	-----ccacagcagg	---acatccaggg...793...	atttcccacag	gaaagcca
D. Ana	tttataag	gtgagtcgaga...286...	--ctgggtagctcgtttccgc	TATAAACCGGAAATTG	ccTTTG	-----ccacagcagg	---acatcaccgc...812...	tatcgcccag	gaaagcca
D. Gri	ttcataag	gtgagctatcaa...442...	ctggtggccggcct-tttccg	TCGTAAACCGGAAATTGG	TTTCG	cacatacacacatag	---atac-----...965...	tcttcttgag	aaaggcga
D. Moj	ttcataag	gtaaggcaagaa...611...	--gacagccggcct-tttccg	CGTAAACCGGAAATTGG	-----	cttcacaca-caatc	---acaca-----...1047...	gcactcttgag	aaaggcga
D. Per	tttataag	gtaagacataaa...834...	--gagggtagctcgtttccgc	TATAAACCGGAAATTG	ccTTTT	-----cccacagcagg	ggacacatc-----...907...	ctcgttccgtag	aaaagcca
D. Pse	tttataag	gtaagacataaa...778...	--gagggtagctcgtttccgc	TATAAACCGGAAATTG	ccTTTT	-----cccacagcagg	ggacacatc-----...904...	gccgttccgtag	aaaagcca
D. Vir	ttcataag	gtaagctatgat...480...	--ggctggccggcct-tttccg	CGTAAACCGGAAATTG	AcTTTCA	cacacacact-cacac	---acaca-----...1143...	tctcttgatag	gaaggcga
D. Wil	tttataag	gtgagcaaagat...739...	--gccgaccagctcgtttccgc	TATAAACCGGAAATTG	ccTTTCAT	---ggcggcagcagg	ctcaacaa-----...707...	tgattttgag	aaaggcga
D. Yak	tttataag	gcaagtcgaggt...343...	--tggatggctcgtttccgcca	TAAACCGGAAATTG	ccTTTG	-----ccacagcagg	---acattcaggg...800...	tatttcccacag	gaaagcca
	** ** ** *	** **	*	**	*****	*****	** **	*	** ** *

id=28487 gene=FBgn0085370 name=Pde11 segment=chr2L.18542004.18543261.-1 type=IN

Figure 201: CS=11.88



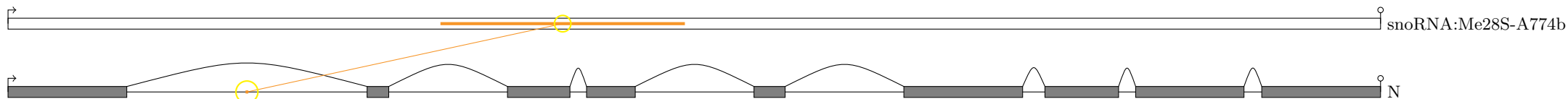
D. Mel	ggaaaaac	ctcttg	ttgatga	AATTAATTGGTCCG	GTTT	atgaattcc-attgattataaattctccaattactg-----accaa	gcaaggct
D. Sec	gaaaaaac	ctcttg	ttgatga	AATTAATTGGTCCG	GTTT	atgaattcc-attgattataaattctccaattactg-----acaaa	gcaaggct
D. Ere	cggaaaaac	ctcttg	ttgatga	AATTAATTGGTCCG	GTTT	atgaattcc-attgattataaattctccaattactg-----acaaa	gcaaggct
D. Ana	cgaagacc	gtttgt	ttgatga	AATTAATTGGTCCG	GTTT	atgaattcc-attgattataaactttccaattactgaaaaacttttaaaaa	gcaaggcg
D. Gri	aaacagtt	ttttcatt	ttgatga	GATTAATTGGTCCG	GTTT	atgaattttacattgattagaaaccttccaattactg-----agtaa	ctagtgtt
D. Moj	gacagtgt	ttcactat	ttgatga	AATTAATTGGTCCG	GTTT	atgaatttaacattgattagaaaccttccaattactg-----agcaa	attccttg
D. Per	cgatattt	gggttc	TGATga	AATTAATTGGTCCG	GTTT	atgaatttac-attgattataaattctccaattgctg-----acaaa	tcaaggct
D. Pse	cgatattt	gggttc	TGATga	AATTAATTGGTCCG	GTTT	atgaatttac-attgattataaattctccaattgctg-----acaaa	tcaaggct
D. Wil	tttataat	agttattt	ttgatga	AATTAATTGGTCCG	GTTT	atgaatttaa-gttgattataaattctccaattactg-----attgt	ttaatagt
D. Yak	cgtcaaac	ctcttg	ttgatga	AATTAATTGGTCCG	GTTT	aagaatttcc-attgattataaa-taaccaattactg-----acaaa	gcaaggct
				*****	*****	*****	*

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	tgaagcag----	ctgccgctgccc...193...	--gcgtttgatatcaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcta
D. Sec	tgaagcag----	ctgccgctgccc...192...	--gcgtttgatatcaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcta
D. Ere	tggcgcag----	ctgccgggaaat...170...	--gcgcttgatatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcta
D. Ana	acaaacag----	cccacgcaacag...175...	--tagcttgatatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcta
D. Gri	tcaaactg----	catatgcatact...175...	--taacagaaaatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcaa
D. Moj	tcgagcag----	ctgcttcagtcg...171...	--ttactactaaatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcga
D. Per	----cagcttct	ctgcagtagcta...159...	--gcgctcatatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	GTTa
D. Pse	acaagcagcttct	ctgcagt-----...176...	--gcgctcatatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	GTTa
D. Wil	tcgagcag----	ctgtaagaggca...177...	.gctgac--aaaatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agagc
D. Yak	tgaagcag----	ctgccgctgccc...186...	--gcgtttgatatacaaagcctc	AAACTGGAT	taCAAT	taTG	GTT	agcta
	*	*	*	*****	*****	*****	***	*

id=85262 gene=FBgn0259246 name=brp segment=chr2R.5396432.5396675.1 type=AN

Figure 202: CS=10.8



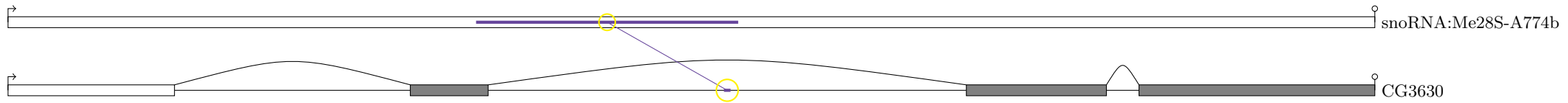
D. Mel	ggaaaaac	ctcttg	ttgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttcc-attgattata	aaattctcca	aattactg	-----	accaa	gcaaggct
D. Sec	gaaaaaac	ctcttg	ttgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttcc-attgattata	aaattctcca	aattactg	-----	acaaa	gcaaggct
D. Ere	cggaaaaac	ctcttg	ttgat	gaaa	TTAATTGGTc	CGTGT	TTAT	gaatttcc-attgattata	aaattctcca	aattactg	-----	aacaa	gcaaggct
D. Ana	cgaagacc	gtttt	gtgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttcc-attgattata	aaactttcca	aattactg	gaaaactttt	aaaaa	gcaaggcg
D. Gri	aaacagtt	ttttc	attgat	gaga	TTAATTGGTc	CGTGT	ttatga	attttacattgatt	agaaaccttcca	aattactg	-----	agtaa	ctagtgt
D. Moj	gacagtgt	ttcact	atgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttaacattgatt	agaaaccttcca	aattactg	-----	agcaa	attctttg
D. Per	cgatattt	gggttt	ctgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttac-attgattata	aaattctcca	aattgctg	-----	acaaa	tcaaggct
D. Pse	cgatattt	gggttt	ctgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttac-attgattata	aaattctcca	aattgctg	-----	acaaa	tcaaggct
D. Wil	tttataat	agttatt	tgat	gaaa	TTAATTGGTc	CGTGT	ttatga	atttaa-gttgattata	aaactttcca	aattactg	-----	attgt	ttaatagt
D. Yak	cgtcaaac	ctcttg	ttgat	gaaa	TTAATTGGTc	CGTGT	ttaaga	atttcc-attgattata	aaa-taacca	aattactg	-----	aacaa	gcaaggct
					*****	*****	*****	*****	***	*****	***	*	

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	cggaactg	gtgag	taaagc	...4067	..-----	cagctttg	caggaatcgcc	ACACGc	CCAATTAG	caa--ac	-----	atata-tag	agcacag	---...844	..ttatc	ctttcag	ataccg	
D. Sec	cggaactg	gtgag	taaagc	...4079	..-----	gttca--g	ctgaggaatcgcc	ACACGc	CCAATTAG	caa--ac	-----	atata-t--	agcacagt	---...832	..ttatc	ctttcag	ataccg	
D. Ere	cggaactg	gtgag	taaagc	...4055	..gatttt	tcca--g	cgcaggaat	ATGc	ACACGc	CCAATTAG	caa--ac	-----	atata-t--	agcacagt	---...850	..ttatc	cttgcag	ataccg
D. Ana	aggaactg	gtaagt	aaatcc	...4222	..-----	agcag--g	ggcaggaatcgcc	ACACGc	CCAATTAG	caa--ac	-----	atata-g	cccgcaca	---...689	..ttatc	cttttag	atactg	
D. Gri	tgcaacgg	gtaagt	gtaag	...4243	..-----	gctcg--t	ggcaggaatcgcc	ACACGc	CCAATTAG	caaacat	-----	-----	tggggcg	ctttgg	...668	..ttg	cattacag	aaagcag
D. Moj	agcgacgg	gtaagt	gtgaaa	...3762	..-----	gtcg--c	tggcaggaatcgcc	ACACGc	CCAATTAG	caaacat	-----	-----	tggggcg	ctttgg	...1149	..tatt	ttcacag	aaaccggc
D. Per	cctaaata	cataga	aaagagg	...4248	..-----	cgaca--	aggcaggaatcgcc	ACACGc	CCAATTAG	caaacaa	-----	atata-t	atatttta	---...663	..gtg	tcctcag	ataccg	
D. Pse	aggaacgg	gtaagt	gggta	...4246	..-----	cgaca--	aggcaggaatcgcc	ACACGc	CCAATTAG	caaacaa	-----	atata-t	atatttt	---...665	..gtg	tcctcag	ataccg	
D. Wil	agcaacgg	gtaagt	tatctt	...4011	..-----	tcgcctg	gcaggaatcgcc	ACACGc	CCAATTAG	caaacat	taaattatata	tg-----	---...900	..ttc	tattacag	aaacctcc		
D. Yak	cggaactg	gtgag	taaagc	...4014	..-----	ttcca--g	cgcaggaatcgcc	ACACGc	CCAATTAG	caaacac	-----	atata-t	atagcac	---...897	..tatt	cttgcag	atctg	
	*	**				*****	*****	*****	*						*	**	**	*

id=101332 gene=FBgn0004647 name=N segment=chrX.3029861.3042007.1 type=IN

Figure 203: CS=12



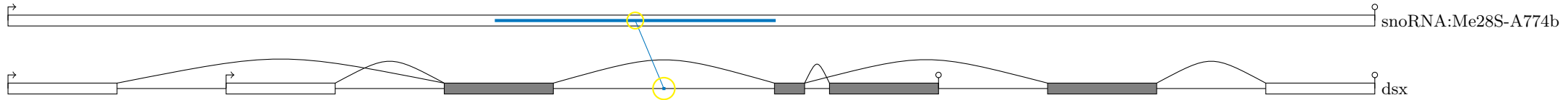
D.Mel	gga	ctctt	ggtgat	gaaatt	AATT	gg	TCCGTGTTT	atgaattt	-ccattgattataaattctccaattactg-----	accaa	gcaaggct
D.Sec	gaaaaaac	ctctt	ggtgat	gaaatt	AATT	gg	TCCGTGTTT	atgaattt	-ccattgattataaattctccaattactg-----	acaaa	gcaaggct
D.Ere	cggaaaaac	ctctt	ggtgat	gaaatt	AATT	gg	TCCGTGTTT	atgaattt	-ccattgattataaattctccaattactg-----	acaaa	gcaaggct
D.Ana	cgaaagcc	gtttt	ggtgat	gaaatt	AATT	gg	TCCGTGTTT	atgaattt	-ccattgattataaactttccaattactgaaaaacttttaaaaa	gcaaggcg	
D.Gri	aaacagtt	ttttcatt	gatgagatt	AATT	gg	TCCGTGTTT	atgaattt	-acattgattataaattctccaattactg-----	agtaa	ctagtgtt	
D.Moj	gacagtgt	ttcactat	gatgaaatt	AATT	gg	TCCGTGTTT	atgaattt	-acattgattataaattctccaattactg-----	agcaa	attctttg	
D.Per	cgatattt	gggttt	ctgatgaaatt	AATT	gg	TCCGTGTTT	atgaattt	-acattgattataaattctccaattactg-----	acaaa	tcaaggct	
D.Pse	cgatattt	gggttt	ctgatgaaatt	AATT	gg	TCCGTGTTT	atgaattt	-acattgattataaattctccaattactg-----	acaaa	tcaaggct	
D.Vir	taaacaat	tttacatt	gatgaaatt	AATT	gg	TCCGTGTTT	atgaattt	-atattgattataaattctccaattactg-----	agtta	aaagtgtt	
D.Wil	tttataat	agttatt	gatgaaatt	AATT	gg	TCCGTGTTT	atgaattt	-aagttgattataaattctccaattactg-----	attgt	ttaatagt	
D.Yak	cgtaaac	ctctt	ggtgat	gaaatt	AATT	gg	TCCGTGTTT	aagaattt	-ccattgattataaaa-taaccaattactg-----	acaaa	gcaaggct
					*****						*

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D.Mel	tcgtggtg	gtgagtactctc...	663...	ctgcaccgca-aa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1813...	cggtacttgcag	gactcacc
D.Sec	tcgtggtg	gtgagtactctc...	627...	ctgcaccgca-aa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1804...	tgttacttgcag	gactcacc
D.Ere	tcgtggtg	gtgagtactctc...	703...	ctgcaccgca-aa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1853...	gaatacttgcag	gactcacc
D.Ana	tcgtggtg	gtaagtactctc...	842...	acattttcgca-aa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1839...	cttcctttccag	gactcacc
D.Gri	ttgtagt	gtaagtactctc...	783...	-tcgcaactgtgcaa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1609...	ttgcacttgcag	gattcacc
D.Moj	ttgtagt	gtaagtactctc...	873...	-tcgcaactgtgcaa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1621...	gcctatttgcag	gattcacc
D.Per	tcgtagt	gtaagtactctc...	651...	--gcacagaaaaaagaagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1736...	tgactattgcag	gactcacc
D.Pse	tcgtagt	gtaagtactctc...	656...	--gcacagaaaaaagaagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1742...	tgactattgcag	gactcacc
D.Vir	ttgtggtg	gtaagtactctc...	1158...	-tcgcaactgtgcaa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	2181...	ttgcacttgcag	gaatcacc
D.Wil	ttgtggtg	gtaagtactctc...	526...	---acaaaaactcaagtagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1621...	ttgccttacag	gactcacc
D.Yak	tcgtggtg	gtgagtactctc...	672...	ctgcaccgca-aa--aagatca	AAACACGGAA	aaAATT	cttggcaatgaccatcgaaa...	1750...	caacttgcag	gactcacc

id=109284 gene=FBgn0023540 name=CG3630 segment=chrX.2062267.2064821.1 type=IN

Figure 204: CS=13.2



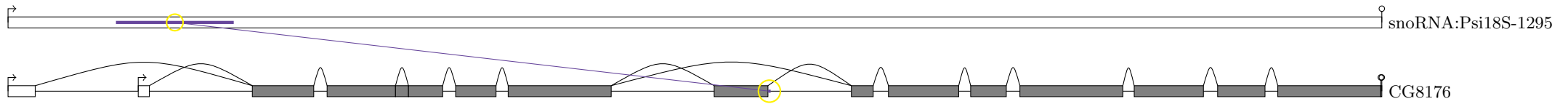
D. Mel	ggaaaaac	ctcttggtgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-ccattgattataaa	ttctccaattactg	-----	accaa	gcaaggct
D. Ere	cggaaaaac	ctcttggtgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-ccattgattataaa	ttctccaattactg	-----	aacaa	gcaaggct
D. Ana	cgaagacc	gttttggtgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-ccattgattataaa	cttccaattactg	gaaaact	tttaaaaa	gcaaggcg
D. Gri	aaacagtt	ttttcattgatgagatta	ATTGGTCCGTg	TTTATG	aat	ttttacattgattagaa	accttccaattactg	-----	agtaa	ctagtgtt
D. Moj	gacagtgt	ttcactatgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tttaacattgattagaa	accttccaattactg	-----	agcaa	attctttg
D. Per	cgatattt	gggtttctgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-acattgattataaa	ttctccaattgctg	-----	acaaa	tcaaggct
D. Pse	cgatattt	gggtttctgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-acattgattataaa	ttctccaattgctg	-----	acaaa	tcaaggct
D. Vir	taaacaat	tttacattgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-atattgatttcaa	accttccaattactg	-----	agtta	aaagtgct
D. Wil	tttataat	agttatttgatgaaatta	ATTGGTCCGTg	TTTATG	aat	tt-aagttgattataaa	aatcttccaattactg	-----	attgt	ttaatagt
			*****	*****	*****	***	*****	***	*	

id=28966 gene=FBgn0086078 name=snoRNA:Me28S-A774b segment=chr3L.13016680.13016752.1 type=EN

D. Mel	gcccttgg	gtaagtgacttc...	3810...	agcagcgagcagagagccac	CATAAAACGGGCCAAT	ggat	atgaagctccgcctac...	1099...	cgttattccag	gccaagac
D. Ere	gcccttgg	gtaagtgacttc...	3874...	agcagcgagcagagagccac	CATAAAACGGGCCAAT	ggat	atgaagctccgcctac...	1035...	ccgcttttcag	gccaagac
D. Ana	gccattag	gtgagttttttt...	3754...	-gcagcgacagagagccata	ATAAAACGGGCCAAT	ggat	atgaagctccgcctac...	1156...	cattcgtttcag	gccaagac
D. Gri	gccactcg	gtaagtgtgtc...	3209...	-acagaagagagagaacata	ATAAAACGGGCCAAT	gact	atgaagctccgcctac...	1701...	tttcttttcag	gccaagac
D. Moj	gccactcg	gtaagtgtccaa...	3682...	-ggagaagagagagaacata	ATAAAACGGGCCAAT	gact	atgaagctccgcctac...	1228...	tttatttcag	gtcaggat
D. Per	accgttgg	gtaagtgcaaag...	3238...	-ggaaagaagcagagaggcata	ATAAAACGGGCCAAT	ggat	atgaagctccgcctac...	1672...	tatacatttcag	gccaagac
D. Pse	accgttgg	gtaagtgcaaag...	3284...	-ggaaagaagcagagaggcata	ATAAAACGGGCCAAT	ggat	atgaagctccgcctac...	1626...	tataaatttcag	gccaagac
D. Vir	gccactgg	gtaagtgtctaa...	2555...	-ggcgaagagagagaacata	ATAAAACGGGCCAAT	gact	atgaagctccgcctac...	2355...	ctccttttacag	gccaggat
D. Wil	gcccttgg	gtaagtctcaat...	3021...	-aagagaagaga-agagacata	ATAAAACGGGCCAAT	ggat	atgaagctccgcctac...	1889...	tttcttttcag	gccaagat
	** * *	** ***		*** **	*****	*****	*****		** ***	* ** *

id=65224 gene=FBgn0000504 name=dsx segment=chr3R.3761628.3785473.-1 type=IN

Figure 205: CS=10.8



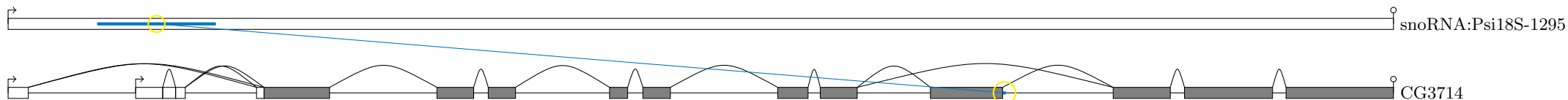
D. Mel	ttag---AGGT	tgCATTACCTGGAGG	ctttgcgttccccagacgc...	92...	-caggctac----	aata	cccatttt---
D. Sim	ttagaggttg--	CATTACCTGGAGG	ctttgcgttctcccagacgc...	92...	-caggctac----	agta	cccgtttt---
D. Sec	ttagaggttg--	CATTACCTGGAGG	ctttgcgttctcccagacgc...	92...	-caggctac----	aata	aaaatcat---
D. Ere	tccgaagttg--	CATTACCTGGAGG	ctttgcgtgaccccagacgc...	91...	-caggctac----	aagg	ccttcttt---
D. Gri	ttgcttgccg-c	ATTACCTGGAGG	cttcgtgcccgcgttgccg...	111...	-gcgcaacttttaagt		acc---tc---
D. Moj	---atcttcac	CGCATTACCTGGAGG	cttcctgcccgttgccg...	91...	ttatgcaac----	aaac	gcaaa-tc---
D. Per	ttcgagtccg-c	ATTACCTGGAGG	ctttgtgttcccagacgc...	94...	-aagcgataattgact		aaaat-----
D. Pse	ttcgatccg-c	ATTACCTGGAGG	ctttgtgttcccagacgc...	94...	-aagcgataattgact		aaaat-----
D. Vir	tctttgccg-c	ATTACCTGGAGG	ctttgtgtgcccagacgc...	92...	-cacgcaac----	aaac	gaaaagt---
D. Wil	attgtttgtg--	CATTACCTGGAGG	tttcgatggtgcccagatg...	93...	ttaagcaac----	aaac	ac---tccag
D. Yak	tctaagtgtg--	CATTACCTGGAGG	ctttgcgtgaccccagacgc...	90...	tcaggctac----	aaat	ccctttt---
		***** **				** *	

id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D. Mel	cTCTCaGG	GTAATGATT	aagaatgtcaatg-aaactga----	...362...	tttcgccggtag	tctctggc
D. Sim	cTCTCaGG	GTAATG	attcaagaatgtcaatg-aaa-----	...365...	tttcgccggtag	tctctggc
D. Sec	cTCTCaGG	GTAATG	attcagaatgtcaatg-aaa-----	...367...	tttcgccggtag	tctctggc
D. Ere	cTCTCaGG	GTAATG	aatcaagaatgtcaatg-ata-----	...395...	tttcgccgatag	tctctggc
D. Gri	cTCTCaGG	GTAAT	-tccaaatgaaagta-aaac-----	...752...	gttctcaacag	tttcgggc
D. Moj	cTCTCaGG	GTAATGCG	---aaaataaacat--acagtgtct--	...582...	aattgaaatag	tttcgggc
D. Per	cTCTCaGG	GTAAT	-----ttatctcaatg-aaagtgatt--	...510...	tctcgctggcag	tgtcgggc
D. Pse	cTCTCaGG	GTAAT	-----ttatctcaatg-aaagtgatt--	...497...	tctcgctggcag	tgtcgggc
D. Vir	cTCTCaGG	GTAAT	-----tataaatgtagagtgccctca...	...763...	atccaaaatag	tttcgggc
D. Wil	cTCTCaGG	GTAATG	-----atttaaaga-aaacttaaatc...	...551...	atgctttttag	tttcgggc
D. Yak	cTCTCaGG	GTAATG	aatcaagaatgtcaatg-aaa-----	...377...	tttcgccggtag	tctctggt
	*****	*****			**	** ** *

id=38495 gene=FBgn0037702 name=CG8176 segment=chr3R.5349519.5349923.1 type=IN VIEW

Figure 206: CS=15.18



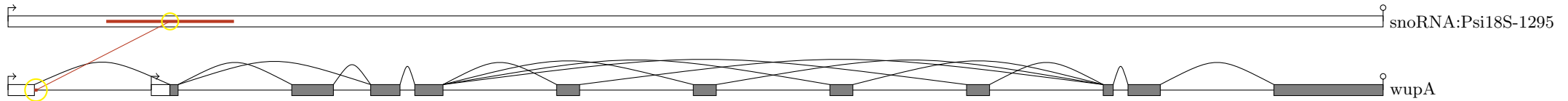
D. Mel	ttagaggt	t-----GCATTACCTGGA	ggctttg	cgttcccc	cagac...94...	-caggctac	---aata	cccat	ttt	
D. Sim	ttagaggt	t-----GCATTACCTGGA	ggctttg	cgttcccc	cagac...94...	-caggctac	---agta	ccg	ttt	
D. Sec	ttagaggt	t-----GCATTACCTGGA	ggctttg	cgttcccc	cagac...94...	-caggctac	---aata	aaa	atcat	
D. Ere	tccgaagt	t-----GCATTACCTGGA	ggctttg	cgtagcccc	cagac...93...	-caggctac	---aagg	c	ttcttt	
D. Gri	ttgcttgc	c-----GCATTACCTGGA	ggcttc	gtgcgcc	gcttgc...113...	-gcgcaact	tttaagt	acc	---tc	
D. Moj	atcttcac	c-----GCATTACCTGGA	ggcttc	ctgcgc	ctgcttgc...93...	ttatgcaac	---aaac	g	caa-tc	
D. Per	ttcgagtc	c-----GCATTACCTGGA	ggcttt	gttccg	cagac...96...	-aagcgata	aattgact	aaa	at---	
D. Pse	ttcgatc	c-----GCATTACCTGGA	ggcttt	gttccg	cagac...96...	-aagcgata	aattgact	aaa	at---	
D. Vir	tctttgcc	c-----GCATTACCTGGA	ggtttt	gtgtgc	ctgcttgc...94...	-cacgcaac	---aaac	g	aaaagt	
D. Yak	-----t	cTAATG	ttGCATTACCTGGA	ggctttg	cgtagcccc	cagac...92...	tcaggctac	---aaat	cc	tttt-
		*****		*****		**	*	*		

id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D. Mel	tcaTTCAG	GTAAATGT	cgttatc	gaaagcag	acaaa-----	...1768...	tcttctccacag	gagtggct
D. Sim	tcaTTCAG	GTAAATGT	cgttatc	gaaagcag	acaaa-----	...1773...	tcttctccacag	gagtggcc
D. Sec	tcaTTCAG	GTAAATGT	cgttatc	gaaagcag	acaaa-----	...1760...	tcttctccacag	gagtggcc
D. Ere	tcaTTCAG	GTAAATGT	cgttatc	gatagaag	acaaa-----	...1834...	ttttctccacag	gagtggtc
D. Gri	tcaTTCAG	GTAAATGT	----cacat	gcccaagc	accccc...2083...	gactttctctag	gagtggac	
D. Moj	tcaTTCAG	GTAAATGT	----cacg	taacgga	actacaaa...2254...	cgccctgtgcag	aagtggcc	
D. Per	tcaTTCAG	GTAAATGT	cctcccc	ccccag	aaacaaa-----	...2172...	cttttccatag	gagcggtc
D. Pse	tcaTTCAG	GTAAATGT	cctcccc	ccccag	aaacaaa-----	...2164...	cttttccatag	gagcggtc
D. Vir	tcaTTCAG	GTAAATGT	----cacg	taccgaa	acactcaat...1920...	gtctctgtgtag	gagcggac	
D. Yak	tcaTTCAG	GTAAATGTCGTTA	tcaaaga	agacca	acaat...1791...	tcttccccacag	gagtggcc	
	*****	*****		*		**	**	**

id=128038 gene=FBgn0031589 name=CG3714 segment=chr2L.4190825.4192632.-1 type=IN

Figure 207: CS=10.8



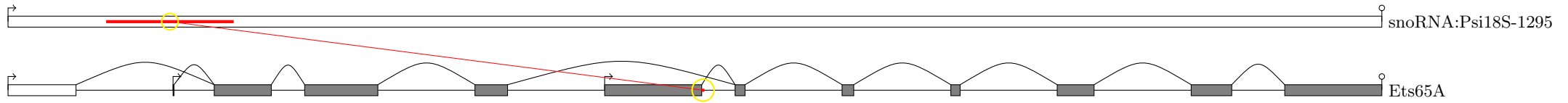
D.Mel	---ttagaggt	t---	GCATTACCTgGAGG	ctttgcgttccccagacgc...	92...	-caggctac---	aata	cccatttt
D.Sim	---ttagaggt	t---	GCATTACCTgGAGG	ctttgcgttctcccagacgc...	92...	-caggctac---	agta	cccgtttt
D.Ere	---tccgaagt	t---	GCATTACCTgGAGG	ctttgcgtgaccccagacgc...	91...	-caggctac---	aagg	ccttcttt
D.Gri	ttgcttgccg--	-----	CATTACCTgGAGG	cttcgtgcccgttgccg...	111...	--gcgcaacttttaagt		acc---tc
D.Moj	atcttcaccg--	-----	CATTACCTgGAGG	cttcctgcccgttgccg...	91...	ttatgcaac---	aaac	gcaaa-tc
D.Per	---ttagaggt	c---	GCATTACCTgGAGG	ctttgtgttccgcccagacgc...	94...	--aagcgataattgact		aaaat---
D.Pse	---ttagaggt	c---	GCATTACCTgGAGG	ctttgtgttccgcccagacgc...	94...	--aagcgataattgact		aaaat---
D.Vir	---tct---t	t GCCCg	CATTACCTgGAGG	ctttgtgtgctgcttgcca...	92...	-cacgcaac---	aaac	gaaaagtt
D.Yak	---tctaagt	t---	GCATTACCTgGAGG	ctttgcgtgaccccagacgc...	90...	tcaggctac---	aaat	ccctttt-
		*	*****	**	*	*	**	*

id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D.Mel	c CTT gaAG	GTGAGTGC	-ttgaagcgg-agcaacattca...	1938...	--atgcatcgaac	atttccat
D.Sim	c CTT gaAG	GTGAGTGC	-ttgaagcgg-agcaacattca...	1903...	--atgcatcgaac	attccatt
D.Ere	c CTT gaAG	GTGAGTGC	-ttgaagcgg-agcaacattca...	1971...	--atgcatcgaac	atttccat
D.Gri	c CTT gaAG	GTGAGTGC	---ggttgctggcgccaacaaagt...	2323...	--atgcatcgaac	ggctgcca
D.Moj	c CTT gaAG	GTGAGTGC	---ggttgctggcgccaacaaagt...	2285...	--gtgtgagtgtgc	gtgctga
D.Per	c CTT gaAG	GTGAGTGC	--cgagcaacagcaacagcaa...	2309...	tgatgcagaacct	atttct--
D.Pse	c CTT gaAG	GTGAGTGC	--cgagcaacagcaacagcaa...	2304...	tgatgcagaacct	atttct--
D.Vir	c CTT gaAG	GTGAGTGGGC	tggtttaaagtgaaccaa...	2018...	--gcgttagtcgac	aattgcat
D.Yak	c CTT gaAG	GTGAGTGC	-ttgaagcga-agcaacattca...	2025...	--atgcatcgaac	atttccat
	*****	*****	* * * *		** *	

id=32171 gene=FBgn0004028 name=wupA segment=chrX.18008762.18010739.-1 type=I5

Figure 208: CS=11.97



D. Mel	----ttagag	GT TGCATTTACCTGGAGG	ctttgcgttccccagacgc...92...caggctac	----aata	cccatttt---
D. Sim	----ttagag	GT TGCATTTACCTGGAGG	ctttgcgttctcccagacgc...92...caggctac	----agta	cccgtttt---
D. Sec	----ttagag	GT TGCATTTACCTGGAGG	ctttgcgttctcccagacgc...92...caggctac	----aata	aaaatcat---
D. Ere	----tccgaa	GT TGCATTTACCTGGAGG	ctttgcgtgaccccagacgc...91...caggctac	----aagg	ccttcttt---
D. Gri	----ttgc	TTGC CgCATTTACCTGGAGG	cttcgtgcgccgcttgccg...111...gcgcaactttaa	agt	acc---tc---
D. Moj	atcttcaccg	--- CATTTACCTGGAGG	cttcctgcgcctgttgccg...91...ttatgcaac	----aaac	gcaaa-tc---
D. Per	----ttcga	GTC CgCATTTACCTGGAGG	ctttgtgttccgccagacgc...94...aagcgataaattgact		aaaat-----
D. Pse	----ttcgc	atc cgcCgCATTTACCTGGAGG	ctttgtgttccgccagacgc...94...aagcgataaattgact		aaaat-----
D. Vir	----tct	TTGCC cgcCATTTACCTGGAGG	ttttgtgtgcctgttgcca...92...cacgcaac	----aaac	gaaaagt---
D. Wil	attgt---	TTG TgCATTTACCTGGAGG	tttcgatggtgcccagatg...93...ttaagcaac	----aaac	ac---tccag
D. Yak	---tcta-	ATGT TGCATTTACCTGGAGG	ctttgcgtgaccccagacgc...90...tcaggctac	----aaat	ccctttt---

***** ** * ** *

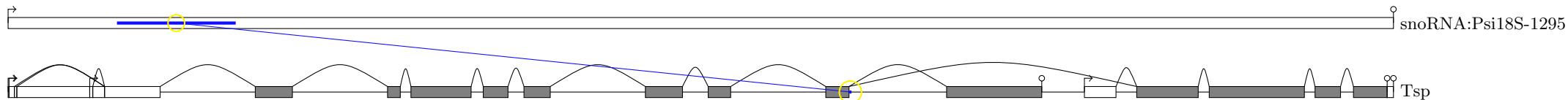
id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D. Mel	c	TTCg CAG	GTGAGTg ggCGGT	---gt---gtgagccagcccaccgt---...127...tctcttttcag	attcctcg
D. Sim	c	TTCg CAG	GTGAGTg ggCGGT	---gt---gtgagccagcccaccgt---...128...cctcttttcag	attcctcg
D. Sec	c	TTCg CAG	GTGAGTg ggCGGT	---gt---gtgagccagcccaccgt---...127...cctcttttcag	attcctcg
D. Ere	c	TTCg CAG	GTGAGTg ggCGGT	---gt---gtgagccagcccaccgt---...133...cctcttttcag	attcctcg
D. Gri	c	TTCg CAG	GTGAGTGGGCAA	---tgt---gtgagtcagccggcca---...199...ttctacttgag	attcctcg
D. Moj	c	TTCg CAG	GTGAGTG	---ggcgatgt---gtgaatccagcc---...161...cttctgttgag	attcctcg
D. Per	c	TTCg CAG	GTGAGTGGGC	---aatgt---gtgagccaacacgac---...176...ttctgttgag	attcctcc
D. Pse	c	TTCg CAG	GTGAGTG	---ggcaatgt---gtgagccaacac---...179...tttctgttgag	attcctcc
D. Vir	c	TTCg CAG	GTGAGTGGGCAA	---tgt---gtgaatccagccggcca---...229...cttctgttgag	attcctcg
D. Wil	c	TTCg CAG	GTGAGTGgGCAA	ccatgtgcggtgaatcgagc---...168...cattcgttttag	attcctcg
D. Yak	c	TTCg CAG	GTGAGTg ggCGGTGT	---gtgagccagcccaccgtcg...154...ccgcttttacag	attcctcg

***** ***** **** * ** ** *****

id=78421 gene=FBgn0005658 name=Ets65A segment=chr3L.6105299.6105470.1 type=IN

Figure 209: CS=12.98



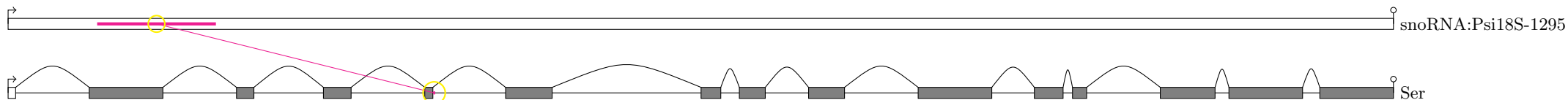
D.Mel	---ttagaGGT	TGCATTACCTgGAGG	ctttgcgttccccagacgc...	92...	-caggctac---	aata	cccatttt
D.Sim	---ttagaGGT	TGCATTACCTgGAGG	ctttgcgttctcccagacgc...	92...	-caggctac---	agta	cccgtttt
D.Sec	---ttagaGGT	TGCATTACCTgGAGG	ctttgcgttctcccagacgc...	92...	-caggctac---	aata	aaaatcat
D.Ere	---tccgaaGT	TGCATTACCTgGAGG	ctttgcgtgaccccagacgc...	91...	-caggctac---	aagg	ccttcttt
D.Gri	---ttgcttgc	cgCATTTACCTgGAGG	cttcgtgcccgttgcgc...	111...	--gcgcaactttaaagt		acc---tc
D.Moj	atcttcaccgc	---ATTACCTgGAGG	cttcctgcccgttgcgc...	91...	..ttatgcaac---	aaac	gcaaa-tc
D.Per	---ttcagtc	cgCATTTACCTgGAGG	ctttgtgtccgcccagacgc...	94...	--aagcgataattgact		aaaa---
D.Pse	---ttcgcac	cgCATTTACCTgGAGG	ctttgtgtccgcccagacgc...	94...	--aagcgataattgact		aaaa---
D.Vir	---tctttgcc	cgCATTTACCTgGAGG	ttttgtgtgctgcttgcca...	92...	-cacgcaac---	aaac	gaaaagtt
D.Yak	---tctaGT	TGCATTACCTgGAGG	ctttgcgtgaccccagacgc...	90...	..tcaggctac---	aaat	cccttt-
	*	*****	**	*	*	**	*

id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D.Mel	ccCCTCAG	GTAAGTgGCAGTc	actcaattggaatggtcgg...	792...	catttgatcag	gcaacatt	
D.Sim	ccCCTCAG	GTAAGTgGCAGC	actcaattggaatggtcgg...	820...	catttgatcag	gcaacatt	
D.Sec	ccCCTCAG	GTAAGTgGCAGC	actcaattggaatggtcgg...	844...	catttgatcag	gcaacatt	
D.Ere	ccCCTCAG	GTAAGTcGCAGC	cactcgtatggaatggctg...	832...	catttgatcag	gcaacatt	
D.Gri	ccCCTCAG	GTAAGT-----	caacaaaacacaacacaac...	878...	tctcattactag	gcaacatt	
D.Moj	ccCCTCAG	GTAAGT-----	caac-tagcatagcaacaaca...	1081...	tctcattattag	gcaacatt	
D.Per	ccCCTCAG	GTAAGT-----	cccagcaccagcccagacc-----	1000...	catttgattag	gcaacatt	
D.Pse	ccCCTCAG	GTAAGT-----	cccagcaccagcccagacc-----	1022...	catttgattag	gcaacatt	
D.Vir	ccCCTCAG	GTAAGT-----	caat-aaacataacaacaaca...	1169...	tctcattattag	gcaacatt	
D.Yak	ccCCTCAG	GTAAGTcGCAGC	cactcaattggaatggtctg...	801...	catttgatcag	gcaacatt	
	*****	*****	**	*	*	**	*****

id=70971 gene=FBgn0031850 name=Tsp segment=chr2L.6690140.6690976.-1 type=IN

Figure 211: CS=12.6



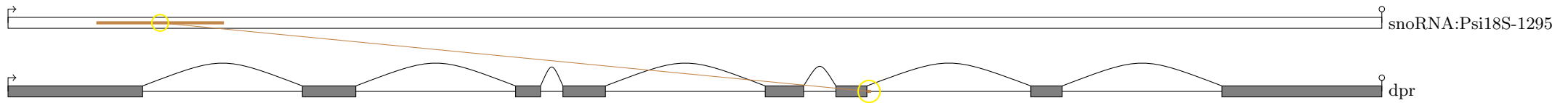
D.Me1	ttagag--GT	TGCATTTACCTGGA	aggctttgcgttccccagac...94...-caggctac---aata	cccatttt
D.Sim	ttagag--GT	TGCATTTACCTGGA	aggctttgcgttctcccagac...94...-caggctac---agta	cccgtttt
D.Sec	ttagag--GT	TGCATTTACCTGGA	aggctttgcgttctcccagac...94...-caggctac---aata	aaaatcat
D.Ere	tccgaa--GT	TGCATTTACCTGGA	aggctttgcgtgaccccagac...93...-caggctac---aagg	ccttcttt
D.Gri	t--TGCTtGC	CGCATTTACCTGGA	aggcttcgtgcgccgcttgc...113...-gcgcaactttaagt	acc---tc
D.Moj	--atctTCAC	CGCATTTACCTGGA	aggcttcctgcgcctgcttgc...93...ttatgcaac---aac	gcaaa-tc
D.Per	ttcgagt--C	CGCATTTACCTGGA	aggctttgtgttcccagac...96...-aagcgataattgact	aaaat---
D.Pse	ttcg--CATC	CGCATTTACCTGGA	aggctttgtgttcccagac...96...-aagcgataattgact	aaaat---
D.Vir	tct--TTGCC	CGCATTTACCTGGA	aggctttgtgtgcctgcttgc...94...-cacgcaac---aac	gaaaagtt
D.Yak	-tctaa-TGT	TGCATTTACCTGGA	aggctttgcgtgaccccagac...92...tcaggctac---aat	ccctttt-
		*****	** * * *	** *

id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D.Me1	ctaTCCAG	GTAAGTGCGGT	-----ggcaattggagacttgtgct...451...aatgaaatgcag	atgctggag
D.Sim	ctaTCCAG	GTAAGTGCGGT	-----ggcaattggagacttgtgct...451...aatgaaatgcag	atgctggag
D.Sec	ctaTCCAG	GTAAGTGCGGT	-----ggcaattggagacttgtgct...451...aatgaaatgcag	atgctggag
D.Ere	ctaTCCAG	GTAAGTGCGGT	-----ggcaattggagacttgtgct...434...catgaaatgcag	atgctggag
D.Gri	ctaTCCAG	GTAAGTGCGGTGGCAA	ttgcaaatgcaacatgttgt...357...gccaaaatgcag	atgctggaa
D.Moj	ctaTCCAG	GTAAGTGCGGTGG	caattgcaattgcagc---ttgt...345...gccaaaatgcag	atgctggaa
D.Per	ctaTCCAG	GTAAGTGCGGT	-----tggcaattgtgggcttgtgct...318...caaaaaatgcag	atgctggag
D.Pse	ctaTCCAG	GTAAGTGCGGT	-----gcaattggggcttgtgctg...298...caaaaaatgcag	atgctggag
D.Vir	ctaTCCAG	GTAAGTGCGGTGGCAA	ttgcaattgccgcatgttgt...399...gccaaaatgcag	atgctggaa
D.Yak	ctaTCCAG	GTAAGTGCGGTGG	-----gcaattggagacttgtgctc...460...aatgaaatgcag	atgctggag
	*****	*****	**** ** **	*****

id=18683 gene=FBgn0004197 name=Ser segment=chr3R.23009036.23009529.-1 type=IN VIEW

Figure 212: CS=10.8



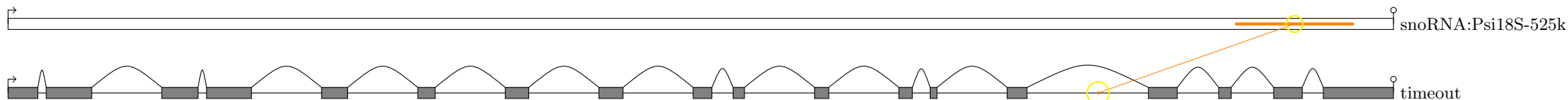
D.Mel	ttagag--GT	TGCATttACCTGGAGG	c	tttgcg	ttcccc	cagacgc...	92...	-caggctac	----	aata	cccat	ttt
D.Sim	ttagag--GT	TGCATttACCTGGAGG	c	tttgcg	ttctccc	cagacgc...	92...	-caggctac	----	agta	cccgt	ttt
D.Sec	ttagag--GT	TGCATttACCTGGAGG	c	tttgcg	ttctccc	cagacgc...	92...	-caggctac	----	aata	aaaat	cat
D.Ere	tccgaa--GT	TGCATttACCTGGAGG	c	tttgcg	tgacccc	cagacgc...	91...	-caggctac	----	aagg	cctt	ctt
D.Gri	-ttgcttgc-	CGCATttACCTGGAGG	g	cttctg	tcgccc	gcttgcc...	112...	--gcgcaact	ttta	aagt	acc--	tc
D.Moj	--atctTCAC	cGCATttACCTGGAGG	ctt	cctg	cgcc	cttgccg...	91...	ttatgcaac	----	aaac	gcaaa	tc
D.Per	ttcgagtcc-	GCATttACCTGGAGG	g	ctt	gttcc	ccagacg...	95...	--aagc	gata	aatt	gact	aaaat
D.Pse	ttcgatcc-	GCATttACCTGGAGG	g	ctt	gttcc	ccagacg...	95...	--aagc	gata	aatt	gact	aaaat
D.Vir	tct--TTGC	cGCATttACCTGGAGG	ttt	gtg	tcct	gcttgcca...	92...	-cagc	caac	----	aaac	gaaa
D.Yak	-tctaa-TGT	TGCATttACCTGGAGG	c	tttgcg	tgacccc	cagacgc...	90...	tcaggctac	----	aaat	ccct	ttt
		*****	**	*	*	*		**	*			

id=63938 gene=FBgn0083055 name=snoRNA:Psi18S-1295 segment=chr3R.16648332.16648471.1 type=EN

D.Mel	aCTTCCAG	GTATGTAAC	---	gactcggc	attccacc	att--c...	1281...	tctgtggc	cacag	att	aaaaa	
D.Sim	aCTTCCAG	GTATGTAAC	---	gactcggc	attccacc	att--c...	1273...	tccgtggc	cacag	att	aaaaa	
D.Sec	aCTTCTAG	GTATGTAAC	---	gactcggc	attccacc	att--c...	1201...	tccgtggc	cacag	att	aaaaa	
D.Ere	aCTTCCAG	GTATGTAAC	---	gactcaac	attccacc	att--c...	1249...	tccatggc	cacag	att	aaaaa	
D.Gri	aCTTcGAG	GTATGTG	----	ccactcag	ca---aac	attgact...	948...	cctgctcc	acag	att	aaaaa	
D.Moj	aCTTCCAG	GTATGTGTGA	----	ctgagg	gcattt	caaaaa...	1447...	ggcgctt	ctcag	att	aaaaa	
D.Per	aCTTcGAG	GTATGT	----	aacgact	c---tccc	atcatt--ac...	1205...	tccgga	agcag	att	aaaaa	
D.Pse	aCTTcGAG	GTATGT	----	aacgact	c---tccc	atcatt--ac...	1200...	tccgga	agcag	att	aaaaa	
D.Vir	aCTTCCAG	GTATGTGCGA	ttc	gagtc	---	tctctccc	ac--tc...	1083...	ctgtctcc	acag	act	aaaaa
D.Yak	aCTTCCAG	GTATGTAACG	---	actcggc	attccacc	att--cc...	1275...	tccatggc	cacag	att	aaaaa	
	*****	*****		*	*	*		***	*	*****		

id=60985 gene=FBgn0040726 name=dpr segment=chr2R.16633608.16634929.1 type=IN

Figure 213: CS=12.6



```

D.Mel  cattttga taggaggcaaag--...84...-----tagtgcatacactatagcaGATGACTTgTGTTcgtg-----
D.Sim  cattttga taccattctctc--...96...-----tagtgcatacactatagcaGATGACTTgTGTTcgtg-----
D.Sec  cattttga tgcaatctctc--...96...-----tagtgcatacactatagcaGATGACTTgTGTTcgtccacat-----
D.Ere  --cttttt tgtaattccggagt..83...-----taatctattatattatagcaGATGACTTgTGTTgtgtacaattgccc-----
D.Ana  -ttaacct tttggagccaaag--...78...-----agttccatcatattataaacaGATGACTTgTGTTcaactacag-----
D.Gri  ttcccctg tgggagtcaaag--...77...-----taatcccttatattataaacaGATGACTTgTGTTggtgtacagttac-----tccaa-----
D.Pse  aaagtaa taacaaaataat--...97...-----tagtggatcactataaacaGATGACTTgTGTTTgtctacagtagt-----tccaa-----
D.Vir  -agtattc gatggagccaaag--...77...-----taatcacttatattataaacaGATGACTTgTGTTgtgtacagttgc-----tccaatctgttatacc:::tgacttggtttgtgtacagcttttatattatggtatgct
D.Wil  tgagtcgt tgggagttaaag--...81...-----aaattattaattttataaacaGATGACTTgTGTTcgtgtgcag-----tccaa-----
D.Yak  aattagcc tataaaccttct--...97...tcctgaataatttatcatatTATATcaGATGACTTgTGTTcgtgtacaattggcctataaaccttttcttttttgcaat:::tctcaaaagctccaacataaacagat-----
                                     * * * * *

```

id=119640 gene=FBgn0083028 name=snoRNA:Psi18S-525k segment=chr2L_5202383_5202522_1 type=EN

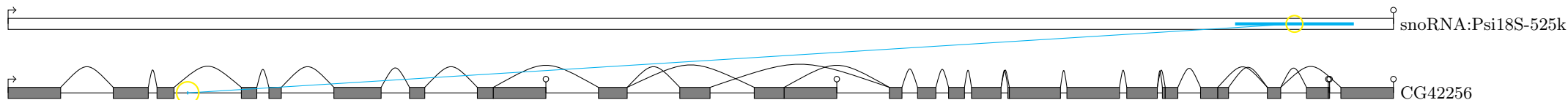
```

D.Mel  tttttcag gtaagataatca...1649...-gccagctctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...326...-tccacatccaag gccaagct
D.Sim  ttttccag gtgagataatca...1637...-gccagctctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...323...-ctctccacacag gccaagct
D.Sec  ttttccag gtgagataatca...1532...-gccagctctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...322...-gctctcc-cgcag gccaagct
D.Ere  tttttcag gtgagataatca...1651...-tgcagctctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...322...-ctctccacgcag gccaagct
D.Ana  tgtttcag gtgagtggaatg...1343...-gcgagcctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...366...-cctattcccag gccaagct
D.Gri  tataccag gtaagtgtggga...1406...-gcgagcctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...348...-tcctttccacag gccaagct
D.Pse  tcttccag gtgagccggagc...1550...-tgctgcctggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...351...-ctctaccacag gccaagct
D.Vir  tctaccag gtgagtgtttg...1978...-tggagtggtcggcaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...346...-ttcccttcacag gccaagct
D.Wil  tctatcag gtgagtgattg...1119...-ggttgggtggccacaagcaa-AAACA AAGT agCATCAtatgcaaagtcaaaaccac-----...427...-atccatccacag gccaagct
D.Yak  tttttcag gtgagataatct...1574...-gccagctctggccacaagcaa-AAACA AAGT agCATCATATGcaaagcaaaaccactaatg...323...-ctctccacacag gccaagct
* * * * *

```

id=10654 gene=FBgn0038118 name=timeout segment=chr3R_8984826_8986879_1 type=IN

Figure 214: CS=10.8



```

D.Mel cattttga taggaggcaaag--...78...cctgaatag-tgcatcatactATAGcaGATGACTTgTGTTcgtg-----
D.Sim cattttga taccattctctc--...90...cctgaatag-tgcatcatactATAGcaGATGACTTgTGTTcgtg-----
D.Sec cattttga tgcaatthttctc--...96...-----tag-tgcatcatactatagcaGATGACTTgTGTTcgtccacat-----
D.Ere --cttttt tgtaattccggagt...83...-----taa-tctattatattatagcaGATGACTTgTGTTtggtacaattgcc-----
D.Ana -ttaacct tttggagccaaag--...72...-ctgtatagttccatcatattATAAcaGATGACTTgTGTTcaactacag-----
D.Gri ttccctg tgggagtcaaag--...71...cctgttttaa-tcccttatattATAAcaGATGACTTgTGTTGGT-----
D.Pse aaagttaa taacaaaataat--...92...-ctgtctag-tggatcactactaAAACaGATGACTTgTGTTtgtctacagtagt-----
D.Vir -agtattc gatggagccaaag--...71...cctgtataa-tcacttatattATAAcaGATGACTTgTGTTtggttacagttgc-----tccaatctgttatacc:::tgacttggtttggtagcagctttatattatgttatgct
D.Wil tgagtcgt tgggagttaaag--...75...-ctgcataaattatattttATAAcaGATGACTTgTGTTcgtgtgcag-----
D.Yak aattagcc tataaaccttct--...104...-----taa-tttatcatattatataGATGACTTgTGTTcgtgtacaattggcctataaaccttttctttttgcaat:::tctcaaaagctccaacataaacagat-----
** * * ** * * *****

```

id=119640 gene=FBgn0083028 name=snoRNA:Psi18S-525k segment=chr2L_5202383_5202522.1 type=EN

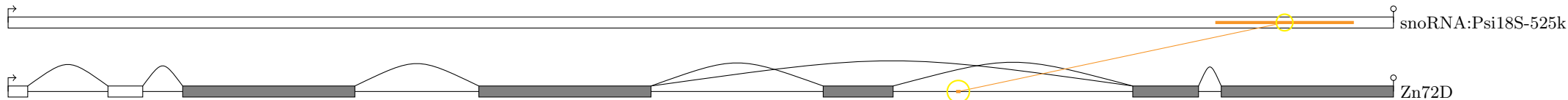
```

D.Mel gcaaggcg gtaagttaactc...84...-cctgtccgtgc--gacaagccAACAAAGTgCATTgtTTGTttgcagatattgcctcacat...523...ccttccaccag atggcaaa
D.Sim gcaaggcg gtaagttacctc...63...-ctgcatccctgc--gacaagccAACAAAGTgCATTgtTTGTttgcagatattgcctcacat...514...ccttccaccag atggcaaa
D.Sec gcaaggcg gtaagttacctc...63...-ctgcatccctgc--gacaagccAACAAAGTgCATTgtttttttgcagatattgcc-----...515...ccttccaccag atggcaaa
D.Ere gcaaggcg gtaagttaaccg...69...-cctgtccctgc--gacaagccAACAAAGTgCATTgttttgcagatattgcc-----...513...tctccactccag atggcaaa
D.Ana gcaaggcg gtaagtatcccg...97...tccctgtccctgt--ggc-agccAACAAAGTgCATTgtTTATttgcagatattgcctcacat...324...tctacccttag atggcaag
D.Gri gcaaggcg gtaagtaactgt...153...tcctgtagcggccttaccaaGCCAACAAAGTgCATTgtTTGTttgcagatattgcctcacat...559...catccttcacag atggcaaa
D.Pse gcaaggcg gtaagtaacacg...216...---tggcagcggccttccaagccAACAAAGTgCATTGTTTgtttgcagatattgcctcac--...325...cacttttcgcag acggaaaa
D.Vir gcaaggcg gtaagtaatggt...131...---ctgtagcggccttaccaagccAACAAAGTgCATTgtTTGTtttcagatattgcctcacat...581...cttcttttcag atggtaaa
D.Wil gcaaggcg gtaagtaacgaa...200...---tggcagcggccttccaagccAACAAAGTgCATTgtTTGTttgcagatattgcctctctc...362...ttctattcacag atggcaaa
D.Yak gcaaggcg gtaagttaaccg...112...-cctgtccggc--gacaagccAACAAAGTgCATTgttttgcagatattgcc-----...514...ttttgtcccag atggcaaa
***** ***** * * ***** ** ***** ** * * *

```

id=6557 gene=FBgn0259141 name=CG42256 segment=chr3L_7175788_7176477.-1 type=IN

Figure 215: CS=13



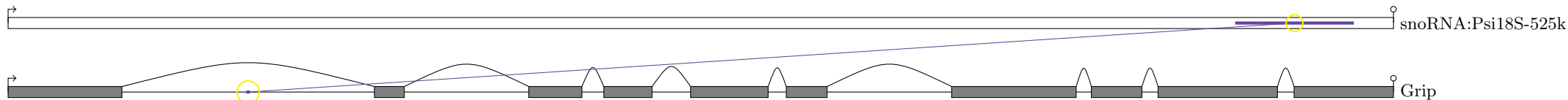
D.Me1	cattttga	taggaggcaaag-----	...76...	atcctgaatag-tgcatcata	CTATagCAGAtGACTTgTGTTcgTGCACA	-----	.....	-----
D.Sim	cattttga	taccatttcttc-----	...88...	atcctgaatag-tgcatcata	CTATagCAGAtGACTTgTGTTcgTGCACA	-----	.....	-----
D.Sec	cattttga	tgcaattttctc-----	...88...	atcctgaatag-tgcatcata	CTATagCAGAtGACTTgTGTT	-----	.....	-----
D.Ere	--cttttt	tgtaattccggagt-----	...75...	atcctgaataa-tctattata	TTATagCAGAtGACTTgTGTTgtGTACAA	-----	.....	-----
D.Ana	-ttaacct	ttggagccaaag-----	...70...	tcctgtatagtccatcata	TTATaaCAGAtGACTTgTGTT	-----	.....	-----
D.Gri	t-tcccct	gtgggagtcaaag-----	...75...	tttaa-tcccttattataa	CAGAtGACTTgTGTTggTGTACAGTT	-----	actcaa	-----
D.Moj	tatattct	gt-ggagtcaaag-----	...75...	tttaataa--atcatattaca	CAGAtGACTTgTGTTcgTGTACA	-----	cctaacc	aatctgttatattctgt--ggagtc:.....
D.Pse	-----	aaagttaataacaaaataat	...95...	tctag-tggatcactactaaa	CAGAtGACTTgTGTTTgcTACAG	-----	.....	-----
D.Vir	-agtattc	gatggagccaaag-----	...75...	tataa-tcacttattataa	CAGAtGACTTgTGTTTGTGTACAGTT	-----	gctccaat	ctgttataccctca--ggagtc:.....tgacttggtttgtgtacagctttatattatgttatgct
D.Wil	t-gagtcg	ttgggagttaaag-----	...79...	ataaattattaattttataa	CAGAtGACTTgTGTTcgTGTGCAG	-----	.....	-----
D.Yak	aattagcc	tataaaccttct-----	...99...	ctgaataa-tttatcatatta	TATCAGAtGACTTgTGTTcgTGTACAA	ttggcctataaaccttttctttttgcaattcgggagtc:.....	-----	-----

id=119640 gene=FBgn0083028 name=snoRNA:Psi18S-525k segment=chr2L.5202383.5202522.1 type=EN

D.Me1	tcgtcacg	gtaacaagcgcg...137...	-ttcgattccg---	gatgaaactt	TGTGTAATAAAGTCcTTTGATGG	-----	cctggccaagaagttgaaca	-----	...840...	tcttgatttcag	gcgacact	
D.Sim	tcgtcacg	gtaacaagcgcg...137...	-ttcgattccg---	gatgaaactt	TGTGTAATAAAGTCcTTTGATGG	-----	cctggccaagaagttgaaca	-----	...868...	tcttgatttcag	gcgacact	
D.Sec	tcgtcacg	gtaacaagcgcg...143...	-----	tccg---	gatgaaactt	gtgtaAATAAAGTCcTTTGATGG	-----	cctggccaagaagttgaaca	-----	...863...	tcttgatttcag	gcgatact
D.Ere	tcgtcacg	gtaacaagcgcg...135...	attcgattccg---	gatgaaact	TGTGTAATAAAGTCcTTTGATGG	-----	cctggccaagaagttgaaca	-----	...797...	tcttgatttcag	gcgacatt	
D.Ana	tcgtcacg	gtaacaagcgcg...216...	-----	ttgg---	taactaactt	gtgtaAATAAAGTCcTTTGATGG	-----	ccaagaagttgaaca	aaaaa...780...	tctcgtttacag	gcgacgtt	
D.Gri	tcgtaatg	gtaacacacaag...287...	ttccacttccaatgcgaaga	AACTt	TGTGTAATAAAGTCcTTTG	-----	acagacgca	-----	...984...	tctctgttccag	gtgaggca	
D.Moj	tcgtaatc	gtaatggtaaca...228...	-----	cttccaatgcgatgaaactt	TGTGTAATAAAGTCcTTTG	-----	agatata-tatattaagctca	-----	...920...	tctccgttctag	gtgaaaca	
D.Pse	tcgttacg	gtaacaagcagt...231...	-ggaaattcaag---	atacaact	TGTGTAATAAAGTCcTTTG	-----	ctggctggccaatgaatgt	-----	...915...	tctcaattccag	gcgacatg	
D.Vir	tcgtaatg	gtaacacaagca...274...	ttccacttccaatgcgaaga	AACTc	TGTGTAATAAAGTCcTTTG	-----	aaatatattatattaagctc	-----	...960...	tttccgttccag	gtgacaca	
D.Wil	tcgtaacg	gtaacaaagcag...490...	-----	cgaccaacaacagagaact	TGTGTAATAAAGTCcTTTG	acaacaacgctgccagaa	-----	...1001...	ttcccttccag	gtgacatt		
D.Yak	tcgtcacg	gtaacaagcgcg...135...	attcgattccg---	gatgaaact	TGTGTAATAAAGTCcTTTGATGG	-----	gcctggccaagaagttgaac	-----	...816...	tcttgatttcag	gcgaaatt	

id=46962 gene=FBgn0017453 name=Zn72D segment=chr3L.16100887.16101951.-1 type=IN

Figure 218: CS=11.88



```

D.Mel  --cattttga taggaggcaag-...84...tagtgcatactatagcaGATGACTTgTGTTcgtg-----
D.Sim  --cattttga taccattctctc-...96...tagtgcatactatagcaGATGACTTgTGTTcgtgcacatct-----
D.Sec  --cattttga tgcaattttctc-...96...tagtgcatactatagcaGATGACTTgTGTTcgtccacatct-----
D.Ere  --cttttttg t-aattccggagt-...83...taatctattatattatagcaGATGACTTgTGTTTgtgtacaattgccct-----
D.Ana  -ttaaccttt t-ggagccaaag-...78...agttccatcatattataacaGATGACTTgTGTTcaactacagatattcat-----
D.Gri  -t-tcccctg tgggagtcaaag-...77...taatcccttatattataacaGATGACTTgTGTTggtgtacagttaactcca-----a-----
D.Moj  -tatattctg t-ggagtcaaag-...77...taataaatcatattataacaGATGACTTgTGTTcgtgtacacctaaccca-----atctgttatatt-----
D.Pse  --aaagttaa taacaaaataat-...97...tagtggatcatactaaaacaGATGACTTgTGTTTgtctacagtagtctta-----
D.Vir  -agtattcga t-ggagccaaag-...77...taatcacttatattataacaGATGACTTgTGTTTgtgtacagttgctcca-----atctgttataacc-----tgacttgtgtttgtgtacagcttttatattatgttatgct
D.Yak  aattagccta t-aaaccttct-...104...taattatcatattatatacaGATGACTTgTGTTcgtgtacaattggcctataaaccttttcctttttgcaat-----
*                * * *** * * *****

```

id=119640 gene=FBgn0083028 name=snoRNA:Psi18S-525k segment=chr2L.5202383_5202522.1 type=EN

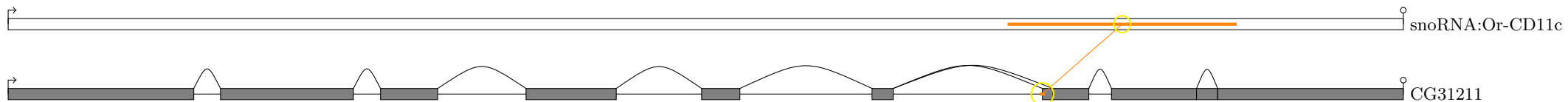
```

D.Mel  gttatccg gtaagtgatggg...3860...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1050...tttttcttgtag ttgaccgg
D.Sim  gttatccg gtaagtgatggg...3532...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1378...tttttcttgtag ttgaccgg
D.Sec  gttatccg gtaagtgatggg...3895...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1015...tttttcttgtag ttgaccgg
D.Ere  gctatccg gtaagtgatggg...3954...tgcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...955...tttttcttgtag ttgaccgc
D.Ana  gttatccg gtaagtgaata...3679...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1231...ttcgtcttcag ttgaccgt
D.Gri  gctttcgg gtaagatttaat...3407...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1503...ttcattttgtag ttgaccgt
D.Moj  gttatccg gtaagctccaca...3472...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcacagcgaccgccgttttacg...1438...tttcattcgtag ttgaccga
D.Pse  gctatccg gtaagtatttcc...3529...tgcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1380...tttcattcgtag ttgaccgc
D.Vir  gctatctg gtaagagtttagc...3439...tgcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgagcggccctcgtttacg...1470...catctcttgtag ttgaccgc
D.Yak  gctatccg gtaagtgatggg...3794...-gcgccattgaagcgttcgaaAATAaAAGTcgCGTCcgcttgcgtcaaacggttgcc...1116...tttttcttgtag ttgaccgg
* * * * * ***** * * * * *

```

id=69665 gene=FBgn0029830 name=Grip segment=chrX.5860771.5872874.1 type=IN

Figure 219: CS=12



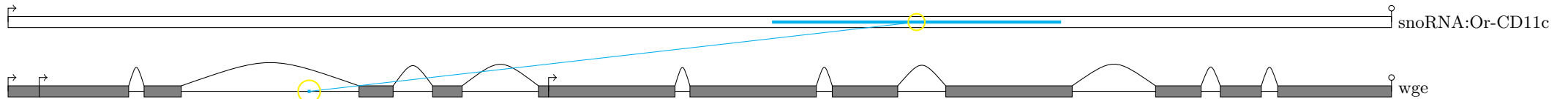
D.Me1	-----tcagttgt	ggcttaatgagga-----	ttgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaa:::~::~
D.Sim	-----tcagttgt	ggcttaatgagga-----	ttgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaa:::~::~
D.Sec	-----tcagttgt	ggcttaatgagga-----	ttgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaa:::~::~
D.Ere	-----tcaaaatt	gtcttaatgagga-----	ttgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaa:::~::~
D.Gri	-----tttttttt	tttttaatgatgaccaactgt	ttttatgtcgcggaagagttc-	TTGAAgaCTATATTCATCAcc	CAAGGCTGA	atttaag:::~::~
D.Moj	-----taatatat	cacataatgatga-----	atgatctggcggaagagttc	attgaagaCTATATTCATCAcc	CAAGaCTGA	-----
D.Per	-----gtagtaat	cataccatgatga-----	atgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaat:::~::~
D.Pse	-----gtagtaat	catgccatgatga-----	atgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaat:::~::~
D.Vir	gcagctatgggcaacactggttacagtt	tcttaagtgatga-----	acgatttgacggaagagttc-	ttgaagaCTATATTCATCAcc	CAAGaCTGA	cttcataaaataaatagctttattctgcagttgatgtaaa:::~::~:gactatattcatcacccaagactgaatatgtagcatt
D.Yak	-----atTTTTTT	atTTtaatgagga-----	ttgatttagcagaagagttc-	TTGAAgaCTATATTCATCA	-----	cccaa:::~::~
		*	*** **	** * * *****	*****	

id=88889 gene=FBgn0086070 name=snoRNA:Or-CD11c segment=chr3L.3222050.3222116.-1 type=EN

D.Me1	caacttgg	gtaagtaaccaa...355..	-----	agcaacaattagcacttgac	TGATttGAATtATAG	gTTTAGct
D.Sim	caacttgg	gtaagtaaccaa...356..	-----	agcaacaattagcacttgac	TGATttGAATtATAG	gTTTAGct
D.Sec	caacttgg	gtaagtaaccaa...356..	-----	agcaacaattagcacttgac	TGATttGAATtATAG	gTTTAGct
D.Ere	caacttgg	gtaagtaaccaa...347..	-----	agcaacaattagcacttgac	TGATttGAATtATAG	gTTTAGca
D.Gri	caacttgg	gtaagtaaccaa...453..	.tgtacgctggcagcaacaa	TTAGcaCTTGat	TGATttGAATtATAG	gTTTAGct
D.Moj	caacttgg	gtaagtaaccaa...429..	.tgtacgctggcagccacaa	TTAGcaCTTGat	TGATttGAATtATAG	gatttagct
D.Per	aaatttgg	gtaagtacacaa...347..	-----	agccacaattagcacttgac	TGATttGAATtATAG	gTTTAGca
D.Pse	aaatttgg	gtaagtacacaa...351..	-----	agccacaattagcacttgac	TGATttGAATtATAG	gTTTAGca
D.Vir	caatttgg	gtaagtaaccaa...338..	.tgaatgcctggcagcaacaa	TTAGcaCTTGat	TGATttGAATtATAG	gatttagct
D.Yak	caacttgg	gtaagtaaccaa...377..	-----	agcaacaattagcacttgac	TGATttGAATtATAG	gTTTAGca
		** **	***** **	*** *****	*****	* ****

id=131699 gene=FBgn0051211 name=CG31211 segment=chr3R.7777961.7778362.1 type=IN

Figure 223: CS=10



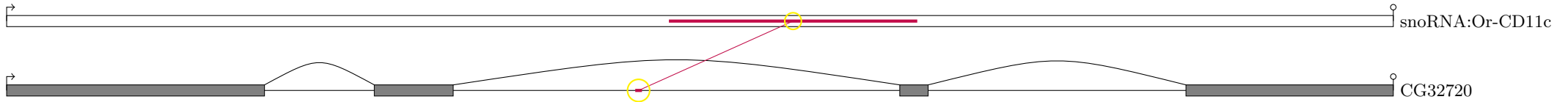
D. Mel	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaaga	GTTG	TTGAag	ACTATATT	catcacccaaaactga-----	.....	-----ttgaa
D. Sec	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaaga	GTTG	TTGAag	ACTATATT	catcacccaaaactga-----	.....	-----ttgaa
D. Ere	-----tcaaaatt	gtccttaatgaggattgat-----t-tagcagaaga	GTTG	TTGAag	ACTATATT	catcacccaaaactga-----	.....	-----ttacca
D. Gri	-----tttttttt	tttttaatgatgaccaacctgttttatgtcgcggaaga	GTTG	TTGAag	ACTATATT	catcacccaagactga-----	.....	-----ttgaa-
D. Moj	-----taatata	cacataatgatgaatgat-----c-tggcgggaaga	GTTG	TTGAag	ACTATATT	catcacccaagactga-----	.....	-----gc-ttcaa-
D. Per	-----gtagtaat	cataccatgatgaatgat-----t-tagcagaaga	GTTG	TTGAag	ACTATATT	attcatcacccaatcctga-----	.....	-----tcaactcaat
D. Pse	-----gtagtaat	catgccatgatgaatgat-----t-tagcagaaga	GTTG	TTGAag	ACTATA	ttcatcacccaatcctga-----	.....	-----tcaactcaat
D. Vir	gcagctatgggcaaacactggttacagtt	tcttaagtgatgaacgat-----t-tgacggaaga	GTTG	TTGAag	ACTATATT	catcacccaagactgacttcataaaataaatagcttt	.....	actatattcatcacccaagactgaatagtagcattcaa-
D. Wil	-----ctaagtta	gtttccatgatgattgat-----cggagcagaaga	GTTG	TTGAag	ACTATATT	catcacccaatgctga-----	.....	-----tttaat
D. Yak	-----atTTTTTT	atTTTaatgaggattgat-----t-tagcagaaga	GTTG	TTGAag	ACTATATT	catcacccaaaactga-----	.....	-----ctcaaa
		*** ** *		* *****	*****	****		*

id=88889 gene=FBgn0086070 name=snoRNA:Or-CD11c segment=chr3L_3222050_3222116_-1 type=EN

D. Mel	tgacctcg	gtgagtgccaag...2281...	--ttggggcgacgcggtcacc	AATGc	ATAGTTCAAGGAC	attgcaatatttcacgtata...166...	tttactttcag	gtgccacc
D. Sec	tgacctcg	gtgagtgccaag...2222...	--tcggggcgacgcggtcacc	AATGc	ATAGTTCAAGGAC	actgcaatatttcacgtata...157...	tttgctttcag	gtgccacc
D. Ere	tgacctcg	gtgagtgccaag...2244...	--ttggggcgacgcggtcacc	AATGc	ATAGTTCAAGGAC	actgcaatatttcacgtata...161...	tggctcttcag	gtgccacc
D. Gri	cgatttgg	gtaagttccttc...2684...	gggag-taggtaggtcg-aa	AATGc	ATAGTTCAAGGAC	attgcaatatttcacgtata...253...	ttgcaactgcag	gagccacc
D. Moj	tgactctgg	gtaagttccact...1752...	--gtgagttgggtaggtcgcca	AATGc	ATAGTTCAAGGAC	attgcaatattttaaagtata...247...	ctttatcagcag	gagccacc
D. Per	tgacttga	gtaagtttga...2017...	tctggggcggtgactgc-----		ATAGTTCAAGGAC	attgcaatatttccgtata...103...	tgtgtgttcag	gtgccacc
D. Pse	tgacttga	gtaagtttga...2140...	-----ggcggctgactgcaaggac		TGATAGTTCAAGGAC	attgcaatatttccctata...106...	tgtgtgttcag	gtgccacc
D. Vir	cgatctgg	gtaagtttaact...1823...	--gtgaggtaggtggctcgcca	AATGc	ATAGTTCAAGGAC	attgcaatatttaccgtata...202...	ttgtaactgcag	gagccacc
D. Wil	cgatctgg	gtaagttcgcacat...1834...	--tgagtcggtcggtcacta	AATGc	ATAGTTCAAGGAC	attgctgtattttacgtata...227...	ttctgacagcag	gagccacc
D. Yak	tgacctcg	gtgagtgccaag...2321...	--ttggggcgacgcggtcacc	AATGc	ATAGTTCAAGGAC	actgcaatatttcacgtata...163...	tgactgtttcag	gtgccacc
	** *	** ***	*		*****	*** ****	****	*** * *****

id=88600 gene=FBgn0051151 name=wge segment=chr3R_18543064_18545592_-1 type=IN

Figure 224: CS=13.4



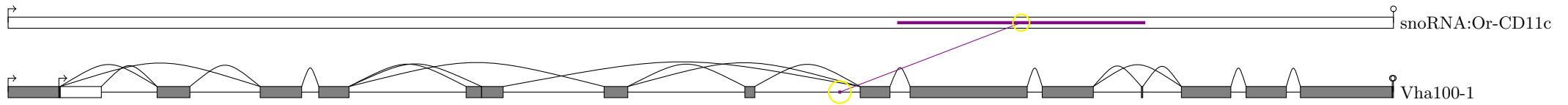
D. Mel	-----tcagtt-gt	ggcttaatgaggattgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----tttgaa
D. Sim	-----tcagtt-gt	ggcttaatgaggattgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----tttgaa
D. Sec	-----tcagtt-gt	ggcttaatgaggattgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----tttgaa
D. Ere	-----tcaaaa-tt	gtcttaatgaggattgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----ttacca
D. Moj	-----taatatat	cacataatgatgaatgatt-tggcGGAAGAGTTcaTTGAAGactatattcatcaccctcaaaactga-----	.....	-----gc-ttcaa-
D. Per	-----gtagta-at	cataccatgatgaatgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----tactcaat
D. Pse	-----gtagta-at	catgccatgatgaatgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----tactcaat
D. Vir	gcagctatgggcaacctggttacagtt	tcttaagtgatgaacgatt-tgacGGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	actatattcatcaccctcaaaactgaatgtagcattcaa-
D. Wil	-----ctaagt-ta	gtttccatgatgattgatcggagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----ttaa-
D. Yak	-----atthtt-tt	atthttaatgaggattgatt-tagcaGAAGAGTTc-TTGAAGactatattcatcaccctcaaaactga-----	.....	-----ctcaa
		*** ** *** * ***** ***** ***** ***** *****		*

id=88889 gene=FBgn0086070 name=snoRNA:Or-CD11c segment=chr3L.3222050.3222116.-1 type=EN

D. Mel	atcgctgg	gtgagttggtt...311...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1118...aacggtcgacag	tttgctg
D. Sim	atcgctgg	gtgagttggtt...306...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1097...aacggtcgacag	tttgctg
D. Sec	atcgctgg	gtgagttggtt...306...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1083...aacggtcgacag	tttgctg
D. Ere	atcgctgg	gtgagttggtt...347...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1061...aacggtcgacag	tttgctg
D. Moj	atctcgag	tttagtcagatg...380...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1296...aacggtcgacag	tttgctg
D. Per	tctcccat	ggaagctgtatt...235...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...964...aacggtcgacag	tttgctg
D. Pse	tctcccat	ggaagctgtatt...235...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...961...aacggtcgacag	tttgctg
D. Vir	atctcggg	tttactcagatg...326...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1187...aacggtcgacag	tttgctg
D. Wil	atctgagg	gcaaatcggaat...385...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...801...aacggtcgacag	tttgctg
D. Yak	atcgctgg	gtgagttggtt...388...atcgataacaataaaaaaTTTCGcAACTaCTTCcaaagaacgctctcccagc-...1253...aacggtcgacag	tttgctg
		* ***** ***** ***** *****	

id=123033 gene=FBgn0052720 name=CG32720 segment=chrX.7428113.7429621.-1 type=IN

Figure 225: CS=10



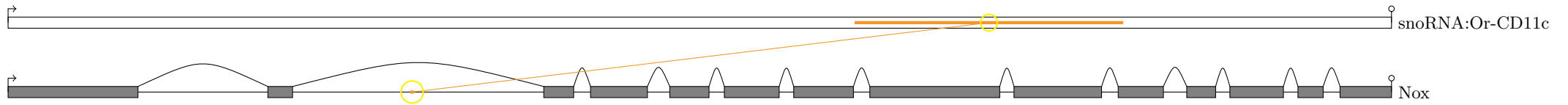
D.Mel	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaaaactga-----	.....	-----aatacctttgaa
D.Sim	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaaaactga-----	.....	-----aatacctttgaa
D.Sec	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaaaactga-----	.....	-----aatacctttgaa
D.Ere	-----tcaaaatt	gtcttaatgaggattgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaaaactga-----	.....	-----aatacctttacca
D.Ana	-----tta--ttg	gctactatgatgaacgaa-----t-gagcagaagagttc-ttGAAGACTAATTCCatcacccaagactga-----	.....	-----cacagccagcca
D.Gri	-----tttttttt	tttttaatgatgaccaacctgtttatgtcgcggaagagttc-ttGAAGACTAATTCCatcacccaaggctga-----	.....	-----ttgaa
D.Moj	-----taatatat	cacataatgatgaatgat-----c-tggcgggaagagttcattGAAGACTAATTCCatcacccaagactga-----	.....	-----gc-ttcaa
D.Per	-----gtagtaat	cataccatgatgaatgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaatcctga-----	.....	-----tactcaat
D.Pse	-----gtagtaat	catgccatgatgaatgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaatcctga-----	.....	-----tactcaat
D.Vir	gcagctatgggcaacactggttacagtt	tcttaagtgatgaacgat-----t-tgacggaagagttc-ttGAAGACTAATTCCatcacccaagactgacttcataaaataaatagctttattc.....	actatattcatcacccaagactgaatagttagcattcaa	
D.Wil	-----ctaagtta	gtttccatgatgattgat-----cggagcagaagagttc-ttGAAGACTAATTCCatcacccaatgctga-----	.....	-----tattgtttaa
D.Yak	-----atTTTTTT	atTTTaatgaggattgat-----t-tagcagaagagttc-ttGAAGACTAATTCCatcacccaaaactga-----	.....	-----aataccttcaaa
		*** ** *	* ***** *****	***

id=88889 gene=FBgn0086070 name=snoRNA:Or-CD11c segment=chr3L_3222050_3222116_-1 type=EN

D.Mel	cttccatg	g ttggtaccctg...317...-cattggtaa--cttgtgcttgaGAGTtTAGTTTTTC--cttgtttgtcgt-aaataacc...56...aatcccctct-ag	cttcgtgg
D.Sim	cttccatg	g ttggtaccctg...311...-cattggtaa--cttgtgcttgaGAGTtTAGTTTTTC--cttgtttgtcgt-aaataacc...56...aatcccctct-ag	cttcgtgg
D.Sec	cttccatg	g ttggtaccctg...294...-cattggtaa--cttgtgcttgaGAGTtTAGTTTTTC--cttgtttgtcgt-aaataacc...56...aatcccctct-ag	cttcgtgg
D.Ere	cttccatg	g ttggtaccctg...321...-cattggtaa--cttgtgcttgaGAGTtTAGTTTTTC--cttgtttgtcgt-aaataacc...56...aatcccctct-ag	cttcgtgg
D.Ana	cttccatg	g ttggtaccctg...271...-cattggtaa--cttgtgcttgaGAGTtTAGTTTTTC--cttgtttgtcgt-aaataacc...53...-ttctatcttcag	cttcgtgg
D.Gri	ctgccatg	g ttggtatccca...187...tcattggt-a--tttgtgcttgaGAGTtTAGTTTTTC--cttttgcgtaactaacc...53...catctcttta-ag	cttcgtgg
D.Moj	ctgccatg	g ttggtatccca...212...tcattggt-a--tttgtgcttgaGAGTtTAGTTTTTC--cttgttgccgt-aactaaccg...54...aatctatctt-ag	cttcgtgg
D.Per	cttccatg	g ttggtaccctg...350...--ttggtaaatTTTgtgcttgaGAGTtTAGTTTTTCctttgtttgtcgt-aaataa---.63...tatcttcctt-ag	cttcgtgg
D.Pse	cttccatg	g ttggtaccctg...362...--ttggtaaatTTTgtgcttgaGAGTtTAGTTTTTCctttgtttgtcgt-aaataa---.63...tatcttcctt-ag	cttcgtgg
D.Vir	ctgccctg	g ttggtatccca...166...tcattggt-a--tttgtgcttgaGAGTtTAGTTTTTC--cttttgcggt-aactaaccg...46...gatctctcat-ag	cttcgtgg
D.Wil	ctccatg	g ttggtaccctc...302...--tatatatatattgtgcttgaGAGTtTAGTTTTTC--ctttgtttgtcgt-aaataacc...60...tctttcctct-ag	cttcgtgg
D.Yak	cttccatg	g ttggtaccctg...303...-cattggtaa--cttgtgcttgaGAGTtTAGTTTTTC--cttgtttgtcgt-aaataacc...56...aatcccctct-ag	cttcgtgg
	** ** *	***** * * *****	** ** *

id=997 gene=FBgn0028671 name=Vha100-1 segment=chr3R_24960321_24960770_1 type=IN

Figure 226: CS=12



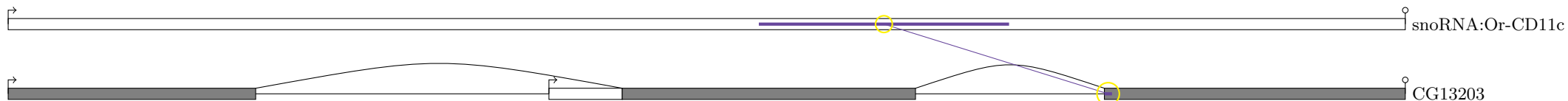
D.Mel	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaaaactga-----	:::::	-----tttgaa
D.Sim	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaaaactga-----	:::::	-----tttgaa
D.Sec	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaaaactga-----	:::::	-----tttgaa
D.Ere	-----tcaaaatt	gtcttaatgaggattgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaaaactga-----	:::::	-----ttacca
D.Gri	-----tttttttt	tttttaatgatgaccaacctgtttatgtcgcggaagagttc-	TTGAAGACTaTATT	catcacccaaggctga-----	:::::	-----ttgaa-
D.Moj	-----taatatat	cacataatgatgaatgat-----c-tggcgggaagagttca	TTGAAGACTaTATT	catcacccaagactga-----	:::::	-----gc-ttcaa-
D.Per	-----gtagtaat	cataccatgatgaatgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaatcctga-----	:::::	-----tcactcaat
D.Pse	-----gtagtaat	catgccatgatgaatgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaatcctga-----	:::::	-----tcactcaat
D.Vir	gcagctatgggcaacactggttacagtt	tcttaagtgatgaacgat-----t-tgacggaagagttc-	TTGAAGACTaTATT	catcacccaagactgacttcataaaataaatagctttatt	:::::	actatattcatcacccaagactgaatatgtagcattcaa-
D.Wil	-----ctaagtta	gtttccatgatgattgat-----cggagcagaagagttc-	TTGAAGACTaTATT	catcacccaatgctga-----	:::::	-----ttaa-
D.Yak	-----atTTTTTT	atTTTaatgaggattgat-----t-tagcagaagagttc-	TTGAAGACTaTATT	catcacccaaaactga-----	:::::	-----ctcaaa
		*** ** *	* *****	*****	****	*

id=88889 gene=FBgn0086070 name=snoRNA:Or-CD11c segment=chr3L.3222050.3222116.-1 type=EN

D.Mel	cggtcaac	gtaagtgtgggt...413...-----tgtcattgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagtcgagca...582...tgaatcttgcag	ggacgatc
D.Sim	cggtcaac	gtaagtgtgggt...415...-----tgtcattgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagtcgagca...592...tggatcttgcag	ggacgatc
D.Sec	cggtcaac	gtaagtgtgggt...414...-----tgtcattgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagtcgagca...603...tggatcttgcag	ggacgatc
D.Ere	cggtcaac	gtaagtgtgggt...388...-----tgtcattgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagtcgagca...575...tggctcttgcag	ggacgatc
D.Gri	cgactcac	gtaagttaaagga...794...-----tgtcactgg-cgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagcgtgtcgg...176...ttttgtctgcag	cgacgatc
D.Moj	cgactaac	gtgagtatggca...994...-----gtcactggcccgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagcgtgtcgg...391...tttaccttaag	cgatgatc
D.Per	cgtttaac	gtaagttttgtt...556...-----tgtcattgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagcgcgagca...99...ctctggttacag	cgacgacc
D.Pse	cgtttaac	gtaagtttttt...553...-----tgtcattgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagcgcgagca...99...ctctggttacag	cgacgacc
D.Vir	cgactcac	gtaagtgcaggt...679...-----gtcactggccgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagcgtgtcgg...126...ttgcctcgcag	cgacgatc
D.Wil	cgtttaac	gtaagttcatag...234...gagactgtcatgtggcgg-----gt	AATGaAGTCaTTCAA	-atacaaatatagctcgacgg...103...aactacttgcag	cgatgatc
D.Yak	cggtcaac	gtaagtgtgggt...431...-----tgtcactgg-ctgcctgtcgt	AATGaAGTCaTTCAA	-atacaaatatagtcgagca...615...tggatcttgcag	ggacgatc
	** * **	** ** *	*** * * *	*****	** * * *

id=91656 gene=FBgn0085428 name=Nox segment=chr2R.12198661.12199734.1 type=IN

Figure 227: CS=11.88



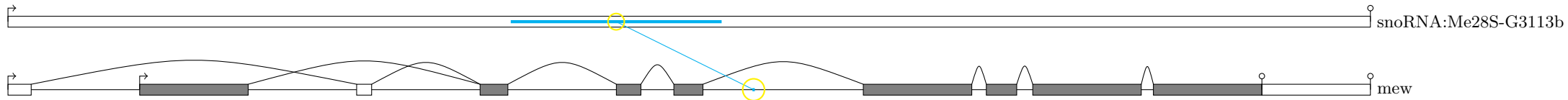
D.Me1	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaaaactga-----	.....	-----acctttgaa
D.Sim	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaaaactga-----	.....	-----acctttgaa
D.Sec	-----tcagttgt	ggcttaatgaggattgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaaaactga-----	.....	-----acctttgaa
D.Ere	-----tcaaaatt	gtcttaatgaggattgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaaaactga-----	.....	-----accttacca
D.Gri	-----tttttttt	tttttaatgatgaccaacctgttttatgtcgcggaagAGTTCTTGAAGAC	tatattcatcaccctcaaggctga-----	.....	-----tgaa
D.Per	-----gtagtaaat	cataccatgatgaatgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaatcctgatc-----	.....	-----
D.Pse	-----gtagtaaat	catgccatgatgaatgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaatcctgatc-----	.....	-----
D.Vir	gcagctatgggcaaacactggttacagtt	tcttaagtgatgaacgat-----t-tgacggaagAGTTCTTGAAGAC	tatattcatcaccctcaagactgacttcataaaataaatagc::::gactatattcatcaccctcaagactgaatatgtagattcaa	.....	-----
D.Wil	-----ctaagtta	gtttccatgatgattgat-----cggagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaatgctgat-----	.....	-----
D.Yak	-----atTTTTTT	atTTTaatgaggattgat-----t-tagcagaagAGTTCTTGAAGAC	tatattcatcaccctcaaaactga-----	.....	-----accctcaaa
		*** ** *	* *****		

id=88889 gene=FBgn0086070 name=snoRNA:Or-CD11c segment=chr3L.3222050.3222116.-1 type=EN

D.Me1	caaatcgg	gtaagtccaag...282..	taaagctttctggcagtctc	GTTTCAAG	acAGCTat
D.Sim	caaatcgg	gtaagtccaag...104..	taaagctttctggcagtctc	GTTTCAAG	acAGCTat
D.Sec	caaatcgg	gtaagtccaag...121..	taaagctttctggcagtctc	GTTTCAAG	acAGCTat
D.Ere	caaatcgg	gtaagtccaag...156..	taaagctttctggcagtctc	GTTTCAAG	acAGCTat
D.Gri	caaatcgg	gtaagttcaata...868..	ctaactgttttggcagtctc	GTTTCAAG	acAGCTat
D.Per	caaatcgg	gtaagtctcaag...43..	taaagcttttggcagtctc	GTTTCAAG	acAGCTat
D.Pse	caaatcgg	gtaagtctcaag...43..	taaagcttttggcagtctc	GTTTCAAG	acAGCTat
D.Vir	caaatcgg	gtaagtgcagag...118..	ctaactcttttggcagtctc	GTTTCAAG	acAGCTat
D.Wil	caaatcgg	gtaagtgaagt...4041..	taaagctgtttggcagtctc	GTTTCAAG	atAGCTat
D.Yak	caaatcgg	gtaagtccaag...291..	taaagctttctggcagtctc	GTTTCAAG	acAGCTat
	*****	*****	**	* * *****	* *****

id=52910 gene=FBgn0033628 name=CG13203 segment=chr2R.7263424.7263745.1 type=IN

Figure 228: CS=12



```

D.Mel ---tatagttg ttttca-----atgatgattttcgagtTTTACCTTggACACctatgaaatgcct-tgattagtgtaaagttatgtttttctgat---aacia at---tcaagc-----
D.Sim ---cagagttg ctttca-----atgatgattttcgattTTTACCTTggACACctatgaaatgact-tgattagtgtaaagttatgtttttctgat---aacia ac---tcaagc-----
D.Sec ---catagttg ctttcg-----atgatgattttcgattTTTACCTTggACACctatgaaatgcct-tgattagtgtaaagttatgtttttctgat---aacia ac---taacgc-----
D.Ere ---catatttg ttttca-----atgatgattttcg-ttTTTACCTTggACACctatgaaatgcct-tgattagtgtaaagttatgtttttctgat---gacia at---taaagc-----
D.Gri -----tataattaacgtaatgatgagc-TACGTTTTTACCTTggACACctatgaaatgcct-tgattagtgtaaattat-tatcgctgaa---atta at---tgaact-----
D.Per ---ctctatta tttcca-----ggatgatttac-GATTTACCTTggACACctatgaaagacctgtgattagtgtaaagttatatttagctgataaaaacca ac---taaag-----
D.Pse ggactctatta gttcca-----ggatgatttacgat-TTTACCTTggACACctatgaaagacctgtgattcgtgtaaagttatatttagctgataaaaacca ac---taaag-----
D.Vir ---tttttttt ttttaaattacattgtgatgagctaagt-TTTACCTTggACACctatgaaatgcct-tgattagtgtaaagttat-aattgctgaa---ttca at---tgaactaaaatggaatt
D.Wil ---ttgatttg atttgaat-----gtgatgataaaCGTAATTACCTTggACACctatgaaatgcct-tgattagtgtaaagttat-tttagctgaa---ttca atgatatcaagt-----
D.Yak ---catgtttg ttttca-----atgatgattttcg-ttTTTACCTTggACACctatgaaatgcct-tgattagtgtaaagttatgtttttctgat---aacia ac---tgaagc-----
*          *****

```

id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620.-1 type=EN

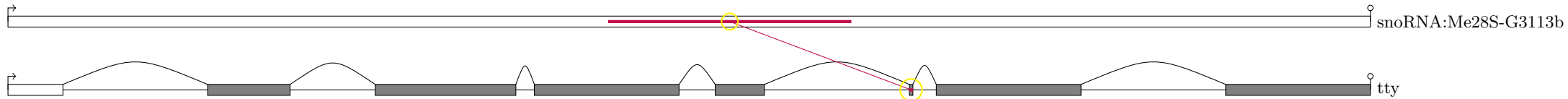
```

D.Mel gtgcaaag gtcagtactatt...188...ggggaggagcgtaggaaaa-GTGTCAAGGTGAA-----ttatctccag--ctatgaataa...818...tgcacatcag gcaacacg
D.Sim gtgcaaag gtcagtactctt...189...ggggaggagcgaaggaaaa-GTGTCAAGGTGAA-----ttatctccag--ctatgaataa...727...tgcacatcag gcaacacg
D.Sec gtgcaaag gtcagtactctt...189...ggggaggagcgaaggaaaa-GTGTCAAGGTGAA-----ttatctccag--ctatgaataa...749...tgcacatcag gcaacacg
D.Ere gtgcaaag gtcagtactgct...184...ggcaggggagcgcaggaaaa-GTGTCAAGGTGAA-----ttatctccag--ctatgaataa...738...tgcacatcag gcaacacg
D.Gri gtgcaaag gttagtgtttga...430...-ccgagggatcacccgaaaa-GTGTCAAGGTGAAAGtATGTAtgtataaattattaattgta-----...886...tctgcgttcag gcaacacg
D.Per gtgcaaag gtgagtaccag...215...a-cacgacacccacagaaaa-GTGTCAAGGTGAAATT-----atctgtgggacggggacggg...1119...cggtttttcag gcaacacg
D.Pse gtcagag gtgagtaccag...225...a-cacgacacccacagaaaa-GTGTCAAGGTGAA-----ttatctgtgggacggggacg...1121...cggtttttcag gcaacacg
D.Vir gtgcaaag gtaggtgaaggt...608...accaaaagaaaaacaaaaa-GTGTCAAGGTGAAAG-----tgcgtataagatatttcaa-----...789...acacgcacgcag gcaacacg
D.Wil gtagcaag gtaagtgcgtga...57...gagaaatgaatagagcgaag-AGGTGTCAAGGTGAAATTATG-----aattaggaagacgcacac...494...ttgtttttcag ggaacatg
D.Yak gtgcaaag gtgagtactctt...239...ggtaggggagcgaaggaaa-GTGTCAAGGTGAA-----ttatctccag--ctatgaataa...763...tgcacatcag gcaacacg
** ** ** ** * * ***** * * *** * * * *

```

id=2680 gene=FBgn0004456 name=mew segment=chrX.13112698.13113780.-1 type=IN

Figure 230: CS=10.8



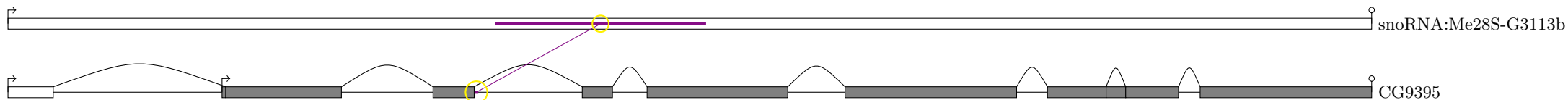
D. Mel	-----tatagttg	ttttcaa--tgatgatttcgagttttacc	TTGGGac	ACCTATGAAATGC	-cttgattagtgtaaagttatgtttttctgataa--caa	at---tcaagc
D. Sim	-----cagagttg	ctttcaa--tgatgatttcgattttacc	TTGGGac	ACCTATGAAATG	-acttgattagtgtaaagttatgtttttctgataa--caa	ac---tcaagc
D. Sec	-----catagttg	ctttcga--tgatgatttcgattttacc	TTGGGac	ACCTATGAAATGC	-cttgattagtgtaaagttatgtttttctgataa--caa	ac---taacgc
D. Ere	-----catatttg	ttttcaa--tgatgatttcg-tttttacc	TTGGGac	ACCTATGAAA	-tgccttgattagtgtaaagttatgtttttctgatga--caa	at---taaagc
D. Ana	tatattttattcatataatatttatttatttatta	tttttaaagtgatgatttacga-tttttacc	TTGGGac	ACCTATGAAAAGAT	-cttgattagtgtaaagttatgtttttctgataaaaccaa	at---aaaatg
D. Gri	-----tataatta	acgtaa--tgatgagctacg-tttttacc	TTGGGac	ACCTATGAAATG	-ccttgattagtgtaaatttat-tatcgcgtgaaat---tta	at---tgaact
D. Per	-----ctc-----tatta	tttcag--gatgatttacga-tttttacc	TTGGGac	ACCTATGAAAGac	CTGTGatTAGTGTAAagttatatttagctgataaaaacca	ac---taaag-
D. Wil	-----ttgatttg	atttgaatgtgatgataaacgtaattacc	TTGGGac	ACCTATGAAA	agtttttgattagtgtat----acagcttactgatta-actca	atgatatcaagt
D. Yak	-----catgtttg	ttttcaa--tgatgatttcg-tttttacc	TTGGGac	ACCTATGAAATGC	-cttgattagtgtaaagttatgtttttctgataa--caa	ac---tgaagc
	**	**** *	*****	*****	* * **** *	*

id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620_-1 type=EN

D. Mel	catgaccg	gtaagtggggag...777...-----ttgctaactcgttgtgtgtgt-----	GCATTTTTATAG	GTCCCAA	
D. Sim	catgaccg	gtaagtggggag...778...-----tgctaactcgttgtgtgtgtg-----	CATTTTTGTAG	GTCCCAA	
D. Sec	catgaccg	gtaagtggggag...770...-----ttgctaactcgttgtgtgtgtg-----	GCATTTTTGTAG	GTCCCAA	
D. Ere	catgaccg	gtaagtggggag...762...-----taatcgttgtgtgtgtgac-----	TTTTGTAG	GTCCCAA	
D. Ana	catgaccg	gtaagtggacct...721...-----tgtgtgtgtgtgtgtgtg-----	ATTTTTGTAG	GTCCCAA	
D. Gri	catgactg	gtaagtgcctc...656...-----ccttgctaattgtgtgtgta-----	CATTTTTATAG	GTCCCAA	
D. Per	catgactg	gtaagtgtacc...1300...ccgccttgctaattgaaatg	TGTGTTG	TGTGGCTTTTTGTAG	GTCCCAA
D. Wil	catgtccg	gtaagtgggaat...581...-----tgtgtgtatgtgtttgccca	TTTTATAG	GTCCCAA	
D. Yak	catgaccg	gtaagtggggag...770...-----taatcgttgtgtgtgtgtg-----	GCATTTTTGTAG	GTCCCAA	
	*** * *	*****	**** **	*****	

id=83720 gene=FBgn0015558 name=tty segment=chrX.21205078.21205898_-1 type=IN

Figure 231: CS=12.06



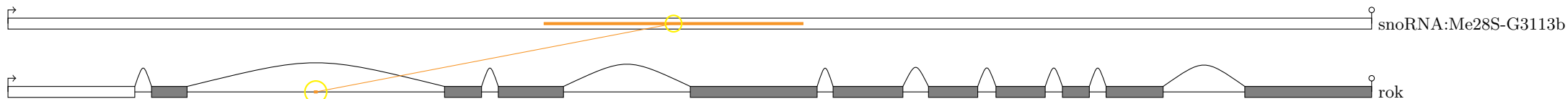
D. Mel	-----tatagttg	ttttcaa--tgatgatt-----	TTCGAg	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagtatgttttctgataa--caa	attcaagc-----	
D. Sim	-----cagagttg	ctttcaa--tgatgatt-----	TTCGAtt	TTTACCTT	ggGACA	cctatgaaatgact-tgattagtgtaaagtatgttttctgataa--caa	actcaagc-----	
D. Sec	-----catagttg	ctttcga--tgatgatt-----	TTCGAtt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagtatgttttctgataa--caa	actaacgc-----	
D. Ere	-----catatttg	ttttcaa--tgatgatt-----	TTCGtt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagtatgttttctgatga--caa	attaaagc-----	
D. Ana	tatattttatttcatataatatttatttaattatta	tttttaaagtgatgattac-----	GATTTTACCTT	ggGACA	cctatgaaagatct-tgattagtgtaaagtatgttttctgataaaaccaa	ataaaatg-----		
D. Gri	-----tataatta	acgtaa--tgatgagctacgtt-----	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaatttattat---cgctgaaattta	attgaact-----		
D. Per	-----ctc-----tatta	ttccag--gatgattacgat-----	TTTACCTT	ggGACA	cctatgaaagacctgtgattagtgtaaagtatatttagctgataaaaacca	actaaag-----		
D. Pse	-----ggactc-----tatta	gtccag--gatgattacgat-----	TTTACCTT	ggGACA	cctatgaaagacctgtgattcgtgtaaagtatatttagctgataaaaacca	actaaag-----		
D. Vir	-----ttttttt	tttttaa--atTACATTGTgATGA	gcTAAG	ttTTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaattgataat---tgctgaatttca	attgaactaaaaatggaatt	
D. Yak	-----catgtttg	ttttcaa--tgatgatt-----	TTTCGtt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagtatgtttttctgataa--caa	actgaagc-----	
	**	*	*****				** ***** * * * * * * * *	* * *

id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620.-1 type=EN

D. Mel	aTGTTAAG	GTAAGTTGGA	-----ctatgcaaatcgccacaa...273...ttctatttcag	gacgacta
D. Sim	aTGTTAAG	GTAAGTTGGA	-----ctatgcaaatggaccacag...265...ttgtatttcag	gacgatta
D. Sec	aTGTTAAG	GTAAGTTGGA	-----ctatgcaaatggaccacag...278...ttgtatttcag	gacgacta
D. Ere	aTGTTAAG	GTAAGtTGGA	-----ctatgcaaatcagcccagcg...192...tgctatttcag	gacgatta
D. Ana	aTGTTAAG	GTAAGATT	-----ttttatgcaaatgggccac--...288...tttcatttcag	gacgatta
D. Gri	aTGTTAAG	GTAAG	-----ttttgtatgcaaatgaaat---...751...ttgtgttcacag	gacgacta
D. Per	aTGTTAAG	GTAAG	-----ttttgctatgcaaatcgggc----...1031...gttcacttcag	gaagacta
D. Pse	aTGTTAAG	GTAAG	-----ttttgctatgcaaatcgggc----...1090...gttcacttcag	gaagacta
D. Vir	aTGTTAAG	GTAAGtTTTGTTATGCAA	aTGTGctatataagtatgtgcgatg...890...ttgtgcttcag	gatgacta
D. Yak	aTGTTAAG	GTAAGtTGGA	-----ctatgcaaatcagtccacag...541...aaaatttcag	gaggatta
	*****	*****	*** ** *	* *** ** ** *

id=20312 gene=FBgn0032506 name=CG9395 segment=chr2L.13353400.13353714.-1 type=IN

Figure 232: CS=16.2



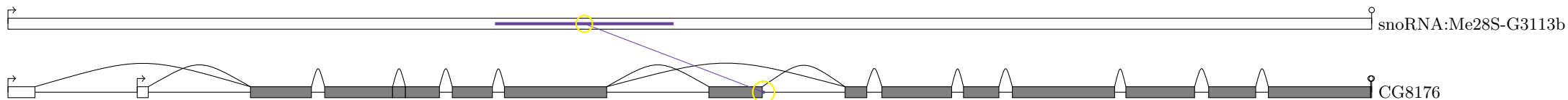
D. Mel	-----tatagttg	ttttcaa--tgatgattttcgagtt	TTACCTtGGACA	ccTATGA	aatgcct-tgattagtgt	aaagttatg	tttttctgataa	---ca---a	attcaagc
D. Sim	-----cagagttg	ctttcaa--tgatgattttcgagtt	TTACCTtGGACA	ccTATGA	aatgact-tgattagtgt	aaagttatg	tttttctgataa	---ca---a	actcaagc
D. Sec	-----catagttg	ctttcga--tgatgattttcgagtt	TTACCTtGGACA	ccTATGA	aatgcct-tgattagtgt	aaagttatg	tttttctgataa	---ca---a	actaacgc
D. Ere	-----catatttg	ttttcaa--tgatgattttcg-ttt	TTACCTtGGACA	ccTATGA	aatgcct-tgattagtgt	aaagttatg	tttttctgataa	---ca---a	atataagc
D. Ana	tatatattttcatataatatttattt	tttttaaagatgattttacgatt	TTACCTtGGGACA	ccTATGA	aagatct-tgattagtgt	aaagttatg	tttttctgataa	aaacca---a	ataaaatg
D. Gri	-----tataatta	acgtaa--tgatgagctacggtt	TTACCTtGGGACA	ccTATGA	aatgcct-tgattagtgt	aaatattat	-taccgctgaaat	---tt---a	attgaact
D. Per	-----ctc-----tatta	tttccag--gatgattttacgatt	TTACCTtGGACA	ccTATGA	aagacctgtgattagtgt	aaagttatatt	tagctgataaaaaacc	---a	actaaag-
D. Pse	-----ggactc-----tatta	gttccag--gatgattttacgatt	TTACCTtGGACA	ccTATGA	aagacctgtgattcgtgt	aaagttatatt	tagctgataaaaaacc	---a	actaaag-
D. Wil	-----ttgatttg	atttgaatgtgatataacgtaa	TTACCTtGGACA	ccTATGA	aaagttttgattagtgt	ta-----acagcttact	gattaactcaatga		tatcaagt
D. Yak	-----catgtttg	ttttcaa--tgatgattttcg-ttt	TTACCTtGGACA	ccTATGA	aatgcct-tgattagtgt	aaagttat	tttttctgataa	---ca---a	actgaagc
		**	**** *	*****	* **** *	* * ****			*

id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620.-1 type=EN

D. Mel	aggcgccg	gt-gagtgcacga...1094...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	2131...	ccgtttccag	ggcgaata
D. Sim	aggcgccg	gt-gagtgcctgt...1059...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	2430...	ccgtttccag	ggcgaata
D. Sec	aggcgccg	gt-gagtgcctgt...1079...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	1992...	ccgtttccag	ggcgaata
D. Ere	aggcgccg	gt-gagtgcctca...1053...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	2256...	ccgtttccag	ggcgaata
D. Ana	aggcccca	gt-gagtgcctca...1163...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	1867...	atccattcacag	ggcgaata
D. Gri	aggcccca	gt-gagtgcctca...1694...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	2379...	atccattcacag	ggcgaata
D. Per	cggcgtcg	gt-gagtgcctca...1253...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	1793...	ttccgtgatcag	agcgaaca
D. Pse	cggcgtcg	gt-gagtgcctca...1279...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	1779...	ttccgtgatcag	agcgaaca
D. Wil	cggcgtcg	gt-gagtgcctca...1483...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	2144...	tcaatggaatag	agcgaaca
D. Yak	cggcgtcg	gt-gagtgcctca...1146...	tgtataaattaagttgaaaa	TTATA	TGTCT	atAGGTGA	cgataatgttgcgtcgtcg...	2377...	ccgtttccag	ggcgaata
	*** *	** **		*	*	*	*****		** **	** **

id=103034 gene=FBgn0026181 name=rok segment=chrX.16526947.16530254.-1 type=IN

Figure 233: CS=10



D. Mel	ta-----	TAGTTG	tTTTCAaTGATGaTTTcGAGTTTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaagtatgttttctgataa---caa	attcaagc-----
D. Sim	-----cag-----	AGTTG	cTTTCAaTGATGaTTTcGATTTTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaagtatgttttctgataa---caa	actcaagc-----
D. Sec	ca-----	TAGTTG	cTTTCGaTGATGaTTTcGATTTTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaagtatgttttctgataa---caa	actaagc-----
D. Ere	-----catattgttttcaa-----		-----TGATGaTTTTcG-TTTTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaagtatgttttctgataa---caa	attaaagc-----
D. Ana	tatattttatttcatataatatttatttaattatttttttaaagtatgatt	acgat-----	-----TTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaagtatgttttctgataa---caa	ataaaatg-----
D. Gri	-----tataattaacgtaatgatgagct	acggt-----	-----TTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaatttattat---cgctgaaattta	attgaact-----
D. Per	-----ctc-----tattatttccag---gatgatt	acgat-----	-----TTTACCTTGGGAcacctatgaaagacctgtgattagtgtaaagtatatttagctgataaaaacca	actaaag-----
D. Pse	-----ggactc-----tattagttccag---gatgatt	acgat-----	-----TTTACCTTGGGAcacctatgaaagacctgtgattcgtgtaaagtatatttagctgataaaaacca	actaaag-----
D. Vir	-----aagtt-----tttttttttttaataacatgtgatgagct	aagtt-----	-----TTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaattgataa---tgctgaatttca	attgaactaaaaatggaatt
D. Yak	-----catgtTTG	TTTTCAaTGATGaTTTcG-TTTTTACCTTGGGAcacctatgaaatgcct-tgattagtgtaaagtatgttttctgataa---caa	actgaagc-----	

***** ** ***** * * * * * * * * * * * * *

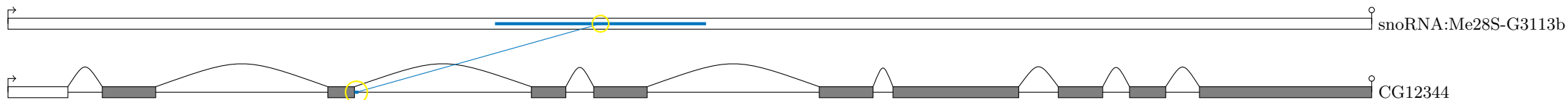
id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620.-1 type=EN

D. Mel	cTCTCAGG	GTAAA	tgATTaAGAATGTCAaTGAAAcTGATTG	gccccatttaccaccgct...339...tttcgccggtag	tctctggc
D. Sim	cTCTCAGG	GTAAA	tGATTcAAGAaTGTCAaTGAAAcTGATTG	gccccatttaccaccgct...339...tttcgccggtag	tctctggc
D. Sec	cTCTCAGG	GTAAA	tGATTcAAGAATGTCAaTGAAAcTGATTG	gccccatttaccaccgct...340...tttcgccggtag	tctctggc
D. Ere	cTCTCAGG	GTAAA	tGAATcAAGAaTGTCAatgatagtgattggcccca	-----...381...tttcgccgatag	tctctggc
D. Ana	cTCTCAGG	GTAAA	-----tgatccaagaatgtaacga	----...416...tttcgccggcag	tctctggc
D. Gri	cTCTCAGG	GTAAA	-----ttccaaatgaaagtaaaa	...753...gtttctcaacag	tttcgggc
D. Per	cTCTCAGG	GTAAA	-----tttatctca---atgaaagtgat	...511...tctcgctggcag	tgctgggc
D. Pse	cTCTCAGG	GTAAA	-----tttatctca---atgaaagtgat	...498...tctcgctggcag	tgctgggc
D. Vir	cTCTCAGG	GTAAA	-----ttat---aatgtagagtgcctc	...764...atccaaaatag	tttcgggc
D. Yak	cTCTCAGG	GTAAA	tGAATcAAGAaTGTCAaTGAAAGTGA	ttggccccatttaccacc---...353...tttcgccggtag	tctctggt

***** ***** ** * * * *

id=38495 gene=FBgn0037702 name=CG8176 segment=chr3R.5349519.5349923.1 type=IN

Figure 234: CS=12



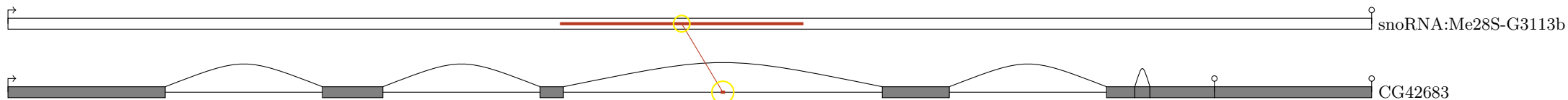
D.Me1	-----tatagttg	ttttcaa-----	tgatgatt	TTCGAgt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagttatgtttttctgataa---caa	attcaagc-----
D.Sim	-----cagagttg	ctttcaa-----	tgatgatt	TTCGAgt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagttatgtttttctgataa---caa	actcaagc-----
D.Sec	-----catagttg	ctttcga-----	tgatgatt	TTCGAgt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagttatgtttttctgataa---caa	actaacgc-----
D.Ere	-----catatttg	ttttcaa-----	tgatgatt	TTTCGgt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagttatgtttttctgatga---caa	atataagc-----
D.Ana	tatattttatttcatataatatttttaattatta	tttttaa-----	aatgatgatttacgat	TTTACCTT	ggGACA	cctatgaaagatct-tgattagtgtaaagttatgtttttctgataaaaacaa	ataaaatg-----	
D.Gri	-----acgtaa	-----tataatta	tgatgagctacggt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaatttattat---cgctgaaattta	attgaact-----	
D.Per	-----ctc	-----tatta	gttgatgatttacgat	TTTACCTT	ggGACA	cctatgaaagacctgtgattagtgtaaagttatatttagctgataaaaacca	actaaag-----	
D.Pse	-----ggactc	-----tatta	gttccag	TTTACCTT	ggGACA	cctatgaaagacctgtgattagtgtaaagttatatttagctgataaaaacca	actaaag-----	
D.Vir	-----ttttttt	ttttaaattacattgtgatgagc-	TAAGgt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaattgataat---tgctgaatttca	atgaactaaaatggaatt	
D.Yak	-----catgtttg	ttttcaa-----	tgatgatt	TTTCGgt	TTTACCTT	ggGACA	cctatgaaatgcct-tgattagtgtaaagttatgttttctgataa---caa	actgaagc-----
		**		****	*****	**	*****	** * * * * * * * * * * * * *

id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620.-1 type=EN

D.Me1	tGTCAAGG	gTAAGTTGAA	-ctccaaccaatagcaatggc-...1369...gattattgcag	aaatacga
D.Sim	tGTCAAGG	gTAAGTTGAA	-ctccaccaatagcaatgcc-...1975...gattattgcag	aaatacga
D.Sec	tGTCAAGG	gTAAGTTGAA	-ctccaccaatagcaatgcc-...1325...gattattgcag	aaatacga
D.Ere	tGTCAAGG	gTAAGtTGAA	-ctccacc-atagccccacc-...1316...gattattgcag	aaatacga
D.Ana	tGTCAAGG	gTAAG	-----ttaaaccagccccccacaca...1325...gattcgtttcag	agatacga
D.Gri	tGTCAAGG	gTAAG	-----ttttatttctcttctctctt-...1640...ttgtttttcag	aaatgcga
D.Per	tGTCAAGG	gTAAG	-----ttaaaccagccccagaggc-...1056...gattattgcag	aaatacga
D.Pse	tGTCAAGG	gTAAG	-----ttaaaccagccccagaggc-...1035...gattattgcag	aaatacga
D.Vir	tGTCAAGG	gTAAGTTTG	caatatatgcatctgcatgg---...1972...gcttattccag	aaatgcga
D.Yak	tGTCAAGG	gTAAGtTGAA	-ctccacc-atagctgtacc-...1383...gattattgcag	aaatacga
	*****	*****	* * * * *	* * * * *

id=56400 gene=FBgn0033558 name=CG12344 segment=chr2R.6719219.6720629.-1 type=IN

Figure 235: CS=10.8



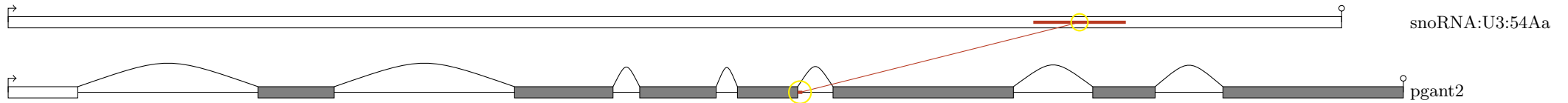
D. Mel	-----tatagttg	ttttcaa--tgatgattttcgagttt	TACCTTG	GACAcc	TATG	-aaatgccttgattagtgtaaagt	tatgttttctgataa	---caa	-----	attcaagc
D. Sec	-----catagttg	ctttcga--tgatgattttcgattt	TACCTTG	GACAcc	TATG	-aaatgccttgattagtgtaaagt	tatgttttctgataa	---caa	-----	actaacgc
D. Ere	-----catatttg	ttttcaa--tgatgattttcg-tttt	TACCTTG	GACAcc	TATG	-aaatgccttgattagtgtaaagt	tatgttttctgatga	---caa	-----	attaaagc
D. Ana	tatattttatttcataataatttttaattatta	tttttaaatgatgatttacgattt	TACCTTG	GACAcc	TATG	-aaagatccttgattagtgtaaagt	tatgttttctgataaaaccaa	-----	-----	ataaaatg
D. Gri	-----tataa	ttaacgtaatgatgagctacgtttt	TACCTTG	GACAcc	TATG	-aaatgccttgattagtgtaaatt	tattat	---cgctgaaattta	-----	attgact
D. Per	-----ctc	tttcag--gatgatttacgattt	TACCTTG	GACAcc	TATG	aaAGAC	ctgtgattagtgtaaagt	tatatttagctgataaaaacca	-----	actaaag
D. Pse	-----ggactc	gttccag--gatgatttacgattt	TACCTTG	GACAcc	TATG	aaAGAC	ctgtgattcgtgtaaagt	tatatttagctgataaaaacca	-----	actaaag
D. Vir	-----tttttttttttaa	attacattgtgatgagctaagtttt	TACCTTG	GACAcc	TATG	-aaatgccttgattagtgtaaatt	gataat	---tgctgaattca	-----	attgactaaaaatggaatt
D. Wil	-----ttgatttg	atttgaatgtgatgataaa	CGTAA	TACCTTG	GACAcc	TATG	aaaagt	ttttgattagtgta	-----	acagcttactgataactcaatgat
D. Yak	-----catgtttg	ttttcaa--tgatgattttcg-tttt	TACCTTG	GACAcc	TATG	-aaatgccttgattagtgtaaagt	tatgttttctgataa	---caa	-----	actgaagc
		*	*	**** *	***** **	**** **	*	* * *	*	* *

id=30887 gene=FBgn0086064 name=snoRNA:Me28S-G3113b segment=chr3L.827537.827620.-1 type=EN

D. Mel	gcttcgag	gtaagttagtagat...3032...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1876...	ttcctgtcacag	gactttgt		
D. Sec	gcttcgag	gtaagttagtagac...3111...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1797...	ttcctgtcacag	gactttgt		
D. Ere	gcttcgag	gtaagttgatac...3168...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1740...	ttcctgtcacag	gactttgt		
D. Ana	gcttcgag	gtgagtgcccat...2528...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...2380...	cctctctgcag	gactttgt		
D. Gri	gctttgag	gtagtaataat...3371...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1537...	cattggcacag	gattttgt		
D. Per	gctttgag	gtagttctagc...3280...	gacttcgcttttcaattaa	GTTT	ca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1622...	ttgctgccacag	gacttcgt
D. Pse	gctttgag	gtgagttctagc...3266...	gacttcgcttttcaattaa	GTTT	ca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1591...	tttctgccacag	gacttcgt
D. Vir	gctttgag	gtaagctatgca...2802...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...2106...	cattactgcag	gatttcgt		
D. Wil	gctttgag	gtgagtaccaa...2620...	gaggacttcggtttctga	-----	ca	CATAT	TGTTg	CAAGGTG	actTTATG	cgcgatttgcagacagtcg	...435...	ttccgttttag	gatttcgt
D. Yak	gcttcgag	gtaagttaatgt...3091...	-----cgcttttcaattaagttcca	CATAT	TGTTg	CAAGGTG	ttttatgcgcgatttgcag	-----	...1817...	ttcctgtcacag	gactttgt		
		*** **	** *	*** ** *	***** **	***** * ***** *				*** ** **			

id=54086 gene=FBgn0261569 name=CG42683 segment=chrX.11120112.11126684.-1 type=IN

Figure 236: CS=11.5



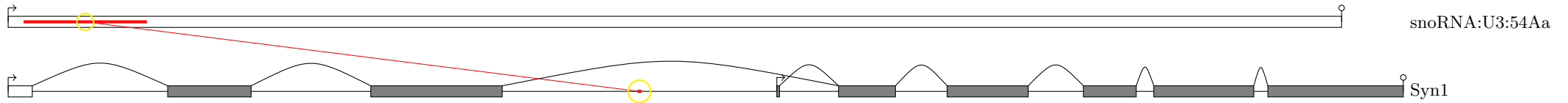
D. Mel	agtcagtc	ttcacatacttt...93...--cgcatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaaacggatagagcgaattctgagtggt	gccccctt
D. Sim	agtcagtc	ttcacatacttt...93...--cgcatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaaacggatagagcgaattctgagtggt	gccccctt
D. Sec	agtcagtc	ttcacatacttt...93...--cgcatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaaacggatagagcgaattctgagtggt	gccccctt
D. Gri	agtcagtc	ttcacttacttt...96...--cggttatccgtgttggggcGTGGC	GCTTCGATGATCG	ctcggtaac-acgaatagaacgaattctgagtggt	gtacaaaa
D. Moj	agtcagtc	ttcacttacttt...99...gcacgtatgat---gggtgtagc-----	GCTTCGATGATCG	ctcggtcac-acgaataaaaacgaattctgagtggt	tctcaaat
D. Per	agtcagtc	ttcacttacttt...105...--cgtgtcgttcggggcgcaga-----	GCTTCGATGATCG	ctcggtaaa-acggatagaacgaattctgagtggt	gtaccctt
D. Pse	agtcagtc	ttcacttacttt...105...--cgtgtcgttcggggcgcaga-----	GCTTCGATGATCG	ctcggtaaa-acggatagaacgaattctgagtggt	gtaaccct
D. Vir	agtcagtc	ttcacttacttt...95...--ttatcactcgttttggggcGTGGC	GCTTCGATGATCG	ctcggtaac-acgaatagaacgaattctgagtggt	gtacccaa
D. Yak	agtcagtc	ttcacatacttt...93...--cgcaactgttcggaacgcagg-----	GCTTCGATGATCG	ctcggtaacacggatagagcgaattctgagtggt	gctctcct
	*****	*****		*****	*****

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026_13031198.-1 type=EN

D. Mel	tGATCATCGtAAGT	-----	ttcagctgaggat
D. Sim	tGATCATCGtAAGT	-----	ttcagctgaggat
D. Sec	tGATCATCGtAAGT	-----	ttcagctgaggat
D. Gri	tGATCATCGtAAGTatTTGT	acacagctttttttattttctttcgtttacgagtttcat	tttagctgaggat
D. Moj	tGATCATCGtAAGT	-----attcatattatcttttaa	tccagccgaggac
D. Per	tGATCATCGtAAGT	-----	ctcagccgaagac
D. Pse	tGATCATCGtAAGT	-----	ctcagccgaagac
D. Vir	tGATCATCGtAAGTatTTGT	ttggtttttcacatttcttgagaatttttaa	atatcccttgctatcttattttctccgtccagccgaggac
D. Yak	tGATaATCGtAAGT	-----	ttcagctgaggat
	****	*****	*** ** *

id=3892 gene=FBgn0031530 name=pgant2 segment=chr2L.3407148_3407245.-1 type=IN

Figure 237: CS=10.8



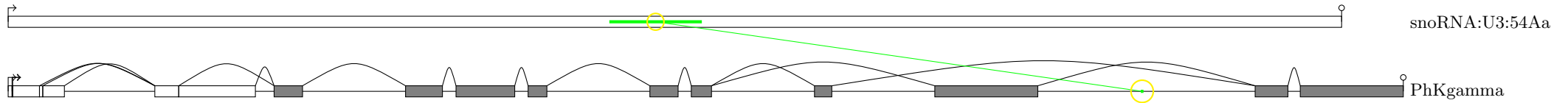
D. Mel	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gccccctt
D. Sim	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gccccctt
D. Sec	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gccccctt
D. Ere	agTCAGTc	TTCACatACTT	tcacactagatgaaagctga...129...attctgagtgg	gccccctt
D. Ana	agTCAGTc	TTCACatACTT	tcacattagatgaaagctaa...141...attctgagtgg	gctccttt
D. Moj	agTCAGTc	TTCACttACTT	tcacacaaaatgaaagcaca...135...attctgagtgg	tctcaaat
D. Per	agTCAGTc	TTCACttACTT	tcgcacaaaatgaaagccaa...141...attctgagtgg	gtaccctt
D. Pse	agTCAGTc	TTCACttACTT	tcgcacaaaatgaaagccaa...141...attctgagtgg	gtaacctt
D. Vir	agTCAGTc	TTCACttACTT	tcacactttctgaaagcaag...136...attctgagtgg	gtaccaaa
D. Wil	agTCAGTc	TTCACttACTT	tcacattgaaagaaagccac...113...attctgagtgg	gtatctac
D. Yak	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gctctcct
	*****	**** *	***** **	*****

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026_13031198.-1 type=EN

D. Mel	tctggaag	gtgggtacacaa...4342...aacgctcgccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaacg...568...cctaatgaattt	atgccgca
D. Sim	tctggaag	gtgagtacacaa...4382...aacgctcgccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaacg...528...tctaatgaattt	atgccgca
D. Sec	tctggaag	gtgagtacacaa...4382...aacgctcgccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaacg...528...tctaatgaattt	atgccgca
D. Ere	tctggaag	gtgggtacagga...4442...aacgctcgccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaatg...468...tctaatgaattt	atgccgca
D. Ana	tttgggaag	gtgggtactcgt...4259...aacgctcagccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaacg...651...tctaatgaattt	atgccgca
D. Moj	cctggaag	gtacgtgcactc...3843...cgctgccaacagttggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaacg...1067...tctaatgaattt	atgccgca
D. Per	tctggaag	gtaggtggagga...4514...gggggctggccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgacga...396...tctaatgaattt	atgctgca
D. Pse	tctggaag	gtaggtggagga...4514...gggggctggccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgacga...396...tctaatgaattt	atgctgca
D. Vir	tctggaag	gtacgtacccaa...4399...cgctgccaacagttggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaacg...511...tctaatgaattt	atgccgca
D. Wil	tctggaag	gtatgtataccc...4045...tccagccagccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaaca...865...tctaatgaattt	atgccgca
D. Yak	tctggaag	gtgggtacacaa...4384...aacgctcgccgatggcatt	AAGTGTGAAaATTGA	atttccaaatcactcgaatg...526...tctaatgaattt	atgccgca
	*****	** **	*	* *****	*****

id=60792 gene=FBgn0037130 name=Syn1 segment=chr3L.21741530_21753130.-1 type=IN

Figure 238: CS=13.75



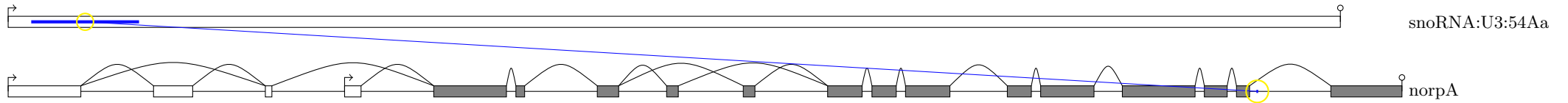
D.Mel	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	tctttgtggtgcctcgcac-...50...attctgagtgg	gccccctt
D.Sim	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	cctttttggtgcctcgcac-...50...attctgagtgg	gccccctt
D.Sec	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	ccttgttgggtgcctcgcac-...50...attctgagtgg	gccccctt
D.Ere	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	ccttt-tgggtcctcgcac-...49...attctgagtgg	gccccctt
D.Ana	agtcagtc	ttcacatacttt...38...gtgaatcgttctattcggca	GCGTGAGGA	TTTG	ccagcggcctttgtggtgt	-----...69...attctgagtgg	gctccttt
D.Gri	agtcagtc	ttcacttacttt...38...atgaatcggtttattcggca	GCGTGAGGTTTTG	ccGTGATG	ccctttgcggtatgacttcg	---...58...attctgagtgg	gtacaaaa
D.Moj	agtcagtc	ttcacttacttt...38...atgaatcggtttattcggca	GCGTGAGGTTTTG	ccGTGATG	ccctttgcggtatgacttcg	---...63...attctgagtgg	tctcaaat
D.Per	agtcagtc	ttcacttacttt...38...ttaaactcgtcctattcggca	GCGTGAGGTTTTG	cccagcgcctttctggtgc	-----...69...attctgagtgg	gtaccctt	
D.Pse	agtcagtc	ttcacttacttt...38...ttaaactcgtcctattcggca	GCGTGAGGTTTTG	cccagcgcctttctggtgc	-----...69...attctgagtgg	gtaacctt	
D.Vir	agtcagtc	ttcacttacttt...38...atgaatcgttctattcggca	GCGTGAGGA	TTTG	ccGTGATG	ctctttgcgatgtgattta-...57...attctgagtgg	gtacaaaa
D.Yak	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	cctttgtggtgcctcgcac-ct...50...attctgagtgg	gctccttt
	*****	*****	*****	*****	*****	*****	*****

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026_13031198_-1 type=EN

D.Mel	cagtgagc	gcaggttttcca...1303...gtttgtgtgcatgt-cctct	ATATTGT	CAGAG	TCTCaACGC	ccttataagatgtgtgtcta...774...tctgatgttag	ctgcgcaa
D.Sim	cagtgagc	gcaggttttcca...1300...gtttgtgtgcatgt-tctct	ATATTGT	CAGAG	TCTCaACGC	ccttataagatgtgtgtcta...749...tctgatgttag	ctgcgcaa
D.Sec	cagtgagc	gcaggttttcca...1311...gtttgtgtgcatgt-tctct	ATATTGT	CAGAG	TCTCaACGC	ccttataagatgtgtgtcta...747...tctgatgttag	ctgcgcaa
D.Ere	cagtgagc	gcaggttttcca...1377...gtttgtgtgcatgt-tctct	ATATTGT	CAGAG	TCTCaACGC	ccttataagatgtgtgtcta...763...tctcaggttag	ctgcgcaa
D.Ana	ccgtgcag	gcaggttttcc...976...-----gtcatgtgtcctatattgt	CAGAG	TCTCaACGC	ccttataagatgtgtgtcta	...623...aacaccatttag	ctgcgcaa
D.Gri	cagcaaca	gcagcagcagca...1205...-tttgtgtatcatgt-tctcta	TATTGT	CAGAGTCTCaACGC	ccttataagatgtgtgtcta	...844...ttatgttttag	ctgcgcaa
D.Moj	ccgtgcag	gcaggttttcc...809...-----tgtcatgt-tctctatattgt	CAGAGTCTCaACGC	ccttataagatgtgtgtcta	...862...tcgcatatttag	ctgcgcaa	
D.Per	aagtgcag	gcaggttttcc...1129...-----tgtcatgt-tctcaatattgt	CAGAGTCTCaACGC	ccttataaccatgtgtgtcta	...1665...tcccacatag	cttgcgcaa	
D.Pse	aagtgcag	gcaggttttcc...1105...-----tgtcatgt-tctcaatattgt	CAGAGTCTCaACGC	ccttataaccatgtgtgtcta	...1480...tcccacatag	cttgcgcaa	
D.Vir	cagtgagc	gcaggttttcc...971...-tttgtgtgcatgt-tctcta	TATTGT	CAGAGTCTCaACGC	ccttataagatgtgtgtcta	...878...gtgcatatttag	ctgcgcaa
D.Yak	cagtgagc	gcaggttttcca...1367...gtttgtgtgcatgt-tctct	ATATTGT	CAGAG	TCTCaACGC	ccttataagatgtgtgtcta...794...tctcaggttag	ctgcgcaa
	*	****	*	*****	*****	*****	* **

id=18873 gene=FBgn0011754 name=PhKgamma segment=chrX.11595161_11597322.1 type=IN

Figure 239: CS=11



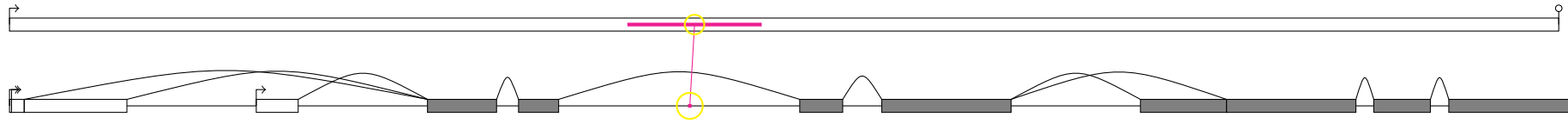
D. Mel	agt	CAGTc	TTCACATACT	ttcacactagctgaaagcca...131...attctgagtgg	gccccctt
D. Sec	agt	CAGTc	TTCACATACT	ttcacactagctgaaagcca...131...attctgagtgg	gccccctt
D. Ere	agt	CAGTc	TTCACATACT	ttcacactagatgaaagctg...130...attctgagtgg	gccccctt
D. Ana	agt	CAGTc	TTCACATACT	ttcacattagatgaaagcta...142...attctgagtgg	gctccttt
D. Gri	agt	CAGTc	TTCActTACT	ttcacactatctgaaagcac...138...attctgagtgg	gtacaaaa
D. Moj	agt	CAGTc	TTCActTACT	ttcacacaaatgaaagcac...136...attctgagtgg	tctcaaat
D. Per	agt	CAGTc	TTCActTACT	ttcgcacaaattgaaagcca...142...attctgagtgg	gtaccctt
D. Pse	a	GTCAGTc	TTCActTACT	ttcgcacaaatgaaagcca...142...attctgagtgg	gtaaccct
D. Vir	agt	CAGTc	TTCActTACT	ttcacacttctgaaagcaa...137...attctgagtgg	gtaccaa
D. Wil	agt	CAGTc	TTCActTACT	ttcacattgaaagaaagcca...114...attctgagtgg	gtatctac
D. Yak	agt	CAGTc	TTCACATACT	ttcacactagctgaaagcca...131...attctgagtgg	gctctctt
	*****		*****	*****	*****

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026_13031198_-1 type=EN

D. Mel	tgcaaaag	gtactgaacgaaacacggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1176...ttcaaaa---caag	cttatgga
D. Sec	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1179...ttcaaaa---caag	cttatgga
D. Ere	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1160...ttcaaaa---caag	cttatgga
D. Ana	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1417...---aaaaatatcaag	cttatgga
D. Gri	tgcaaaag	gtactaaatgaaatacggccgcgaaaccgacactataacc	AGTATGAGACTG	-tacttttagacaaccaaaacaa-...1174...---cgacattaacag	ctaatgga
D. Moj	tgcaaaag	gtactaaatgaaacacggccgcagaccgacactataacc	AGTATGAGACTG	-tacttttagaccacaaaaaac-...1514...---tcacattaacag	cttatgga
D. Per	tgcaaaag	gtactgaacgaaacgcgccctgaaaccgacactataacc	AGTATGAGACTG	-tacttttagacaactataact-...1686...---gctgctttatag	ctaatgga
D. Pse	tgcaaaag	gtactgaacgaaacgcgccctgaaaccgacactataacc	AGTATGAGACTGGT	-acttttagacaactataacta...1689...---gctgctttatag	ctaatgga
D. Vir	tgcaaaag	gtactaaatgaaacacggccgcgaaaccgacactataacc	AGTATGAGACTG	-tacttttagacaaaataata-...1089...---ccacattaacag	cttatgga
D. Wil	tgcaaaag	gtactgaatgaaacacggccgcgaaaccgacactataacc	AGTATGAGACTG	-tacttttagacaacaataata-...1198...---acaattaacag	cttatgga
D. Yak	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1139...ttcaaaa---caag	cttatgga
	*****	*****	**	*****	**

id=1266 gene=FBgn0004625 name=norpA segment=chrX.4254739_4255998.1 type=IN

Figure 240: CS=11.88



snoRNA:U3:54Aa

Pak

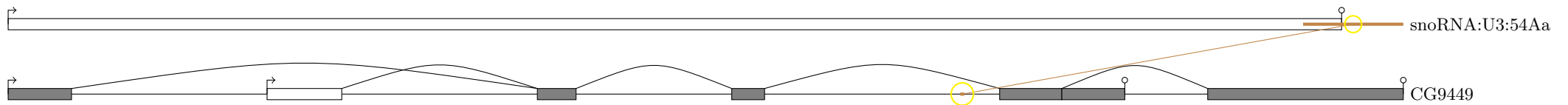
D.Mel	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAG	--gatttgcccagtgctctttg--...64...attctgagtgg	gccccctt
D.Sim	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAG	--gatttgcccagtgctctttg--...64...attctgagtgg	gccccctt
D.Sec	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAG	--gatttgcccagtgctctttg--...64...attctgagtgg	gccccctt
D.Ere	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAG	--gatttgcccagtgctctttg--...63...attctgagtgg	gccccctt
D.Ana	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGG	--atttgccagcggcctttgt...74...attctgagtgg	gctccttt
D.Gri	agtcagtc	ttcacttacttt...26...cgcggttgatgagttgaatcg	TTTTATTcGGCAGCgTGAGGT	--tttgcgtgatgccctttg...69...attctgagtgg	gtacaaaa
D.Vir	agtcagtc	ttcacttacttt...26...cgcggttgatgagttgaatcg	TTTTATTcGGCAGCgTGAGG	--atttgccagcggcctttgt...69...attctgagtgg	gtacaaaa
D.Wil	agtcagtc	ttcacttacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGGTAT	ttcgcagtcgccctttggg...43...attctgagtgg	gtatctac
D.Yak	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAG	--gatttgcccagtgctctttg--...64...attctgagtgg	gctccttt
	*****	*****	*****	*****	*****

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026.13031198.-1 type=EN

D.Mel	agtttacc	gtgagttttcta...540...-----tatatcaatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---...393...tgcctttttcag	ggcatgcc
D.Sim	agtttacc	gtgagtttctcta...551...-----tatatcaatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---...387...tgcctttttcag	ggcatgcc
D.Sec	agtttacc	gtgagtttctcta...551...-----tatatcaatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---...387...tgcctttttcag	ggcatgcc
D.Ere	agtttacc	gtgagtttctata...611...-----tatatgatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---...394...tgcctttttcag	ggcatgcc
D.Ana	aatttacg	gtaagtcaggtg...363...-----t-tatctattatccattatta	TTTCAaGCTGCCAATG	aaagtaagt-aaactccacgt---...400...gccatttttcag	ggcatgcc
D.Gri	agtttacg	gtgagttcatgt...593...-----atthttgattattcattatt	ATTTCaGCTGCCAATGAAA	gtaagtaaaacacctggtt...417...tgaattttacag	ggatgcc
D.Vir	agtttacg	gtaagttcgtgt...751...-----ttttgtattatcgattatta	TTTCAaGCTGCCAATGAAA	gtaagtaaaacacctggtt...399...tgcacattacag	ggatgcc
D.Wil	aatttacg	gtgagttttaat...439...gtattatgattttgtattat	GTATTTCaGCTGCCAATG	aaagtaagt-aaatgccgaaa---...377...taattattttag	ggatgcc
D.Yak	agtttacc	gtgagtttctata...514...-----tatattgatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaaattcacga---...380...tgcctttttcag	ggcatgcc
	* ****	** ***	* * ** *	** *****	** ** ** *

id=116213 gene=FBgn0014001 name=Pak segment=chr3R.2181143.2182154.1 type=IN

Figure 241: CS=10.8



```

D.Mel agtcagtc ttcacatacttt...122...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Sim agtcagtc ttcacatacttt...122...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Sec agtcagtc ttcacatacttt...122...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Ere agtcagtc ttcacatacttt...121...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Ana agtcagtc ttcacatacttt...132...tgatcgctcggta-acacgaaTAGAGcGAATTctGAGTGGT Gctccttt
D.Gri agtcagtc ttcacttacttt...128...tgatcgctcggta-acacgaaTAGAAcGAATTctGAGTGGT Gtacaaaa
D.Per agtcagtc ttcacttacttt...133...-gatcgctcggta-aaacggatAGAAcGAATTctGAGTGGT Gtaccctt
D.Pse agtcagtc ttcacttacttt...133...-gatcgctcggta-aaacggatAGAAcGAATTctGAGTGGT Gtaaccct
D.Vir agtcagtc ttcacttacttt...133...-----ctcggtta-acacgaatagaacGAATTctGAGTGGT Gtaccaaa
D.Yak agtcagtc ttcacatacttt...122...--atcgctcggtaaacacggatAGAGcGAATTctGAGTGGT Gctctctt
***** ***** ***** ** ***** ***** *

```

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026-13031198.-1 type=EN

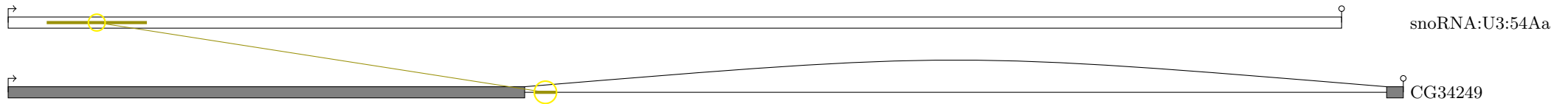
```

D.Mel gtcccgat gtgagtaagcag...538...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--ctgctcttctcgttctgt----tt...59...tcccggcagacag tcggtcca
D.Sim gtcccgat gtgagtaagcag...527...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--cttctcttctcgttctgt----tt...66...tcccggcagacag tcggtcca
D.Sec gtcccgat gtgagtaagcag...440...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--cttctcttctcgttctgt----tt...66...tcccggcagacag tcggtcca
D.Ere gtcccgat gtgagtaagcag...341...aagctcaagcgcgcttggtCATCACTCAATTC TTCT-----cttctcgttctgtatctgtt...64...tccatccggcag tcggtcta
D.Ana gtcccgat gtgagtaagcag...231...aagctcaagcgcgcccgggtCATCACTCAATTC TTCTG--ctctttttcgccttc--tact...43...ttacctcatag tcggtcta
D.Gri gtcccgat gtgagtaacca...83...gagctcaagcgcgcttggtCATCACTCAATTC TTTTG-----ctctctgctcgtctctgctc...42...ccacatgaacag ttggtgca
D.Per gtcccgat gtgagtaagcag...107...aagctcaagcgcgcttggtCATCACTCAATTC TTCTtctccttctttcgttctcgt-----...35...cttccatgacag ctggtgca
D.Pse gtcccgat gtgagtaagcag...113...aagctcaagcgcgcttggtCATCACTCAATTC TTCTtctccttctttcgttctcgt-----...41...cttccatgacag ctggtgca
D.Vir gtcccgat gtgagtaacca...107...aagctcaagcgcgcttggtCATCACTCAATTC --ccttaacgctcttctcgttc-----...29...ttacatctcag ttggtgca
D.Yak gtcccgat gtgagtaagcag...375...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--cttctcttctggttctgt----tt...70...tccccggcag tcggtcca
***** ***** * ***** * ***** * * ***** * * ***** * * ***** *

```

id=21061 gene=FBgn0036875 name=CG9449 segment=chr3L.19486759-19487437.-1 type=IN

Figure 242: CS=10.8



```

D.Mel  agtcaGTC TTCACaTACTTTcacactagctgaaagccaag...129...attctgagtggg gcccccctt
D.Sim  agtcaGTC TTCACaTACTTTcacactagctgaaagccaag...129...attctgagtggg gcccccctt
D.Sec  agtcaGTC TTCACaTACTTTcacactagctgaaagccaag...129...attctgagtggg gcccccctt
D.Ere  agtcaGTC TTCACaTACTTTcacactagatgaaagctgag...128...attctgagtggg gcccccctt
D.Ana  agtcaGTC TTCACaTACTTTcacattagatgaaagctaag...140...attctgagtggg gctccttt
D.Gri  agtcaGTC TTCACTTACTTTcacactatctgaaagcactt...136...attctgagtggg gtacaaaa
D.Vir  agtcaGTC TTCACTTACTTTcacactttctgaaagcaagt...135...attctgagtggg gtacaaaa
D.Wil  agtcaGTC TTCACTTACTTTcacattgaaagaaagccaca...112...attctgagtggg gtatctac
D.Yak  agtcaGTC TTCACaTACTTTcacactagctgaaagccaag...129...attctgagtggg gctctctt
***** ***** * ***** ***** *

```

id=57228 gene=FBgn0065048 name=snoRNA:U3:54Aa segment=chr2R.13031026_13031198.-1 type=EN

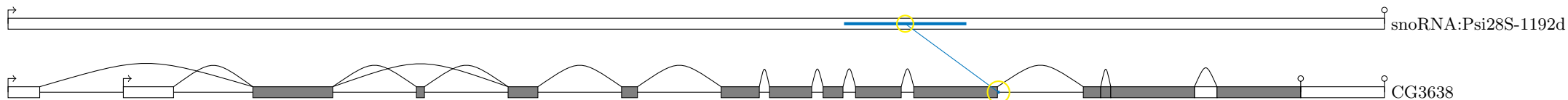
```

D.Mel  atctcAAG GTGaGTGAAGGCcaagggccacatttgccac...537...caaccatt--ccag cctggcctt
D.Sim  atctcAAG GTGaGTGAAGGCcaagggccacatttgccac...447...cagccatt--ccag cctggcctt
D.Sec  atctcAAG GTGaGTGAAGGCcaagggccacatttgccac...470...caggcatt--ccag cctggcctt
D.Ere  atctcAAG GTGaGTGAAGGCcaagggccacatttgccac...556...cagcgatt--cctg cctgcctt
D.Ana  atctcAAG GTGaGTGAAGGCcaagggccacatttgccccc...375...tcgccatt--ccgg ccagcctt
D.Gri  atttcAAG GTGAGTGAAGGCcaagggccacattttccag...369...--atcatttgccag aatggaaa
D.Vir  atttcAAG GTGAGTGAAGGCcaagggccacatttgccag...316...--ataatttgccag aatggcca
D.Wil  atttcAAG GTGAGTGAAGGCcaagggccacatttgccctg...301...--acttctataaat tctttttt
D.Yak  atctcAAG GTGaGTGAAGGCcaagggccacatttgccac...596...cagccatt--ccta tctgcctt
** ***** *

```

id=56712 gene=FBgn0085278 name=CG34249 segment=chr3L.16354099_16354679.-1 type=IN

Figure 243: CS=12.42



```

D.Mel  --ttaataat aggtccaatcta...42...-agattaatttcc--atcctttaTTATCCTTGTGCT-tgtaaatattgc--ttagttcaatgcacatgagaacgtaaaggaaac-----cta gctttaaa
D.Sim  --ttaataat aggtccaatcta...41...cagattaattcac--atcctttATTATCCTTGTGCT-tgtaaatattac--ttagttcaatgcacacgagaacgtaaataa-----cta gctttaaa
D.Sec  --ttaataat aggtccaatcta...41...cagattaattcaa--atcctttATTATCCTTGTGCT-tgtaaatattac--ttagttcaatgcacacgagaacgtaaataa-----cta gctttaaa
D.Ere  --ggaaccgg ggtccaatcta...41...cagaacaatcacc--atcctttATTATCCTTGTGCT-tgtaaatatcat--ttagttcaatgcacacgagaacgtaaagaaca-----ctc gaataaat
D.Ana  atctatt--t aggtccaatcta...41...cagaaaaatcccc--atTTTTTTATTATCCTTGTGCT-tgtaaacacact--ccagttcaatgcacacgagaacgtaaagaaca-----cta tcttctaa
D.Gri  --ttaaatt atgtccagtcta...44...--gacaataacaaagtcctttaTTATCCTTGTGCT-tgtggcaacattatcagctcaatgcacacgagaacgtagaagaaca-----act catttaa-
D.Moj  --tatacact acgtccagtcta...49...--gatcaatattat-gtctcctaTTATCCTTGTGCT-tgtggcaacac--ccagctcaatgcacacgagaacgtagaagaaca-----act tgtaagc
D.Pse  --tgtatatt cgtccaatcta...44...--actaatccacaaatcctttaTTATCCTTGTGCT-tgtggcattttcccctgtccaatgcacacgagaacgtagaagaacagatatatt tgtaaa--
D.Wil  --gttctttc gagtccaatcta...48...-agataaattttc--ttcttttaTTATCCTTGTGCT-tgtgtccttttatctga--caaggcacacgagaacgtaaataa-----aaa gtactaaa
D.Yak  --tcataat aggtccagtcta...41...cagattaattccc--atcctttATTATCCTTGTGCT-tgcaaatatcat--ttagttcaatgcacacgagaacgtaaagaaca-----cta gctttaaa
      **** *
                ***      *      ***** **
                                     *** ***** * ***** * *****
  
```

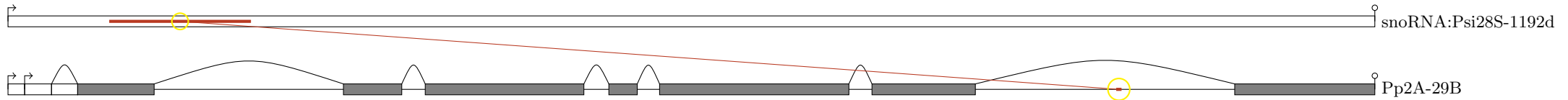
id=48913 gene=FBgn0082998 name=snoRNA:Psi28S-1192d segment=chrX_17037967_17038101_-1 type=EN

```

D.Mel  gGCACAAG GcATGAactttaattcatttgattt----...851...ttcgactttcag gtcaggac
D.Sim  gGCACAAG GcATGATctttgatttcatttgattt---...815...ttcgactttcag gtcaggac
D.Sec  gGCACAAG GcATGATctttgatttcatttgattt---...815...ttcgactttcag gtcaggac
D.Ere  gGCACAAG GcATGATctttgatttcatttgattt---...814...ttcgactttcag gtcaggac
D.Ana  gGCACAAG GcATGATctttaattccatgatttc---...1371...attatggttcag gtcaggac
D.Gri  gGCACAAG GcATGAagttaattt--ctta--ttcttt...1582...atgttttgcag atccggcc
D.Moj  gGCACAAG GcATGAagttaatttaatttaattt---...1390...ctgtgcttcag atccggcc
D.Pse  gGCACAAG GcATGAactttgatttcattt--tttga--...1843...cctttggttcag gtcaggac
D.Wil  gGCACAAG GcATGAagtt--at--tttaatttcttt...796...ttcttattacag gtcaggac
D.Yak  gGCACAAG GcATGATctttgatttcatttgattt---...710...ttccactttcag gtcaggac
      ***** ***** ** **** * **
                                     ** *** ** ** *
  
```

id=7276 gene=FBgn0261444 name=CG3638 segment=chrX_1115629_1116517_-1 type=IN VIEW

Figure 244: CS=14.8



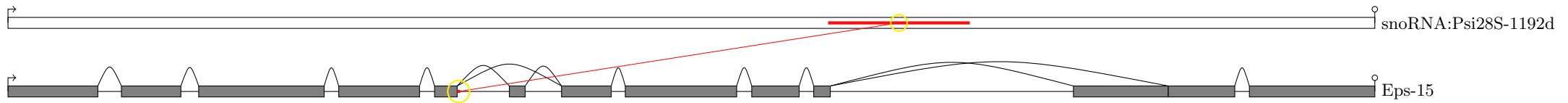
D.Mel	ttaataat	ag----	GTCCaaTCTAATTCTG	-----	catcgtggtttaattatgta...	85...	-aaaggaacacta	gctttaaa
D.Sim	ttaataat	ag----	GTCCaaTCTAATTCTG	-----	catcgtggtttaattatgta...	85...	-aatgaacacta	gctttaaa
D.Sec	ttaataat	ag----	GTCCaaTCTAATTCTG	-----	catcgtggtttaattatgta...	85...	-aatgaacacta	gctttaaa
D.Ere	ggaaccgg	gg----	GTCCaaTCTAATTCTG	-----	cataatggtttatttatgta...	85...	-aaaagaacactc	gaataaat
D.Ana	a-----	TC TATT	agGTCCaaTCTAATTCTG	-----	catcatggcttatttatgta...	85...	-aaaagaacacta	tcttctaa
D.Gri	----ttaa	aa--TTAT	GTCCagTCTAATTCTG	-----	catcatgtcactgggatatt...	88...	-tagaagaacaact	catttaa-
D.Moj	t-----	atac	ACTACGTCCagTCTAATTCTG	-----	catcaggtcatttgatact...	92...	-agaagaacaact	tgtaagc
D.Per	----agt	aTATTC	GTCCaaTCTAATTCTG	-----	catcaggtttatttatgta...	92...	-agaacagatata	ttgtaaa
D.Pse	----tgt	aTATTC	GTCCaaTCTAATTCTG	-----	catcaggtttatttatgta...	92...	-agaacagatata	ttgtaaa
D.Wil	gttccttc	ga-----	GTCCaaTCTAATTCTA	tcTTAT	gatcattgcctaataagata...	86...	-aatgaacaaaa	gtactaaa
D.Yak	tcataaat	ag----	GTCCagTCTAATTCTG	-----	catcaggtttaattatgta...	85...	-aaaagaacacta	gctttaaa
			*****	*****	**	*	* * *	

id=48913 gene=FBgn0082998 name=snoRNA:Psi28S-1192d segment=chrX_17037967_17038101_-1 type=EN

D.Mel	agctgcag	gtaagcaataaa...	331...	ggagccgcccacgcttgact	-----	CGGAATgtTAG-AGGAT	-----	gagtagccaaccacatgacg	-----	...	274...	attgtttatag	cgtaatca
D.Sim	agctgcag	gtaagcaataaa...	333...	ggagccgcccacgcttgact	-----	CGGAATgtTAG-AGGAT	-----	gagtagccaaccacatgacg	-----	...	275...	attgtttgacg	cgtaatca
D.Sec	agctgcag	gtaagcaataaa...	333...	ggagccgcccacgcttgact	-----	CGGAATgtTAG-AGGAT	-----	gagtagccaaccacatgacg	-----	...	274...	attgtttgacg	cgtaatca
D.Ere	agctgcag	gtaagcattaat...	375...	ggagccgcccacgcttgact	-----	CGGAATgtTAG-AGGAT	-----	gagtagccaaccacaagacg	-----	...	265...	attgtttacag	cgtaatca
D.Ana	agcagcag	gtaagaatcgtt...	341...	ggaacctcccaaagtggaaa	-----	TGGAATgtTAG-AGGATGAGTAG	-----	agtagatgttcttcccgct	-----	...	297...	tttgtttacag	cgtaatca
D.Gri	agcagccg	gtaagtaatggt...	311...	tgagcagcagaagagtgttt	-----	CGGAATgtTAGAAGGATgaGTAG	-----	acaat	-----	aaatgtgcaacaaaa...	295...	taacattacag	cgtaatca
D.Moj	agcagccg	gtaagaaagaat...	300...	gcagcagctgaaaagtgttt	-----	CGGAATgtTAG-AGGATgaGTAGT	-----	caaaacaaaataatgtcat	-----	...	277...	caaatccgtag	cgtaatca
D.Per	agcagcag	gtaagccccacc...	460...	tcgagagtcgagaattgaat	-----	TGGAATgtTAG-AGGATGAGTA	-----	gccaacaatacaagaatgt	-----	...	222...	gtttggttacag	cgtaatca
D.Pse	agcagcag	gtaagccccacc...	460...	tcgagagtcgagaattgaat	-----	TGGAATgtTAG-AGGATGAGTA	-----	gccaacaatacaagaatgt	-----	...	223...	gtttggttacag	cgtaatca
D.Wil	agcagcag	gtaagcaaccag...	257...	gcaactgcagccaagcagcaATAA	attTGGAATgtTAG-AGGAT	-----	gagtagctacaaaattcaat	-----	...	1089...	ttactttgacg	cgtaatca	
D.Yak	agctgcag	gtaagcattaata...	366...	ggagccgcccacgcttgact	-----	CGGAATgtTAG-AGGAT	-----	gagtagccaaccacatgacg	-----	...	273...	attgttaacag	cgtaatca
	*** ** *	*****		*****	*****	*****	*	*****	**	*****		*****	

id=43941 gene=FBgn0260439 name=Pp2A-29B segment=chr2L_8369031_8369715_1 type=IN

Figure 245: CS=11.88



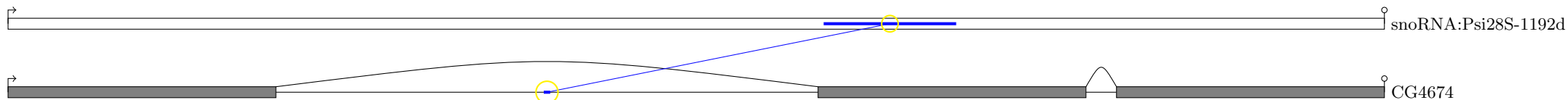
D. Mel	ttaataat	aggtccaatcta...41...	cagattaatttcc--atccttt	ATTAtc	CTTGtGCTT	-gtaatattgc--ttagttcaatgcacacgagaaacgtaaaggaaca-----cta	gctttaaa
D. Sim	ttaataat	aggtccaatcta...41...	cagattaattcac--atccttt	ATTAtc	CTTGtGCTT	-gtaatattac--ttagttcaatgcacacgagaaacgtaaataaaca-----cta	gctttaaa
D. Sec	ttaataat	aggtccaatcta...41...	cagattaattcaa--atccttt	ATTAtc	CTTGtGCTT	-gtaatattac--ttagttcaatgcacacgagaaacgtaaataaaca-----cta	gctttaaa
D. Ere	ggaaccgg	gggtccaatcta...41...	cagaacaatcacc--atccttt	ATTAtc	CTTGtGCTT	-gtaatatcat--ttagttcaatgcacacgagaaacgtaaaagaaca-----ctc	gaataaat
D. Gri	ttaaaatt	atgtccagtcta...43...	--ggacaataacaaagtctttt	ATTAtc	CTTGtGCTT	-gtggcaacattatcagctcaatgcacacgagaaacgtagaagaaca-----act	catttaa-
D. Moj	tatacact	acgtccagtcta...48...	-agatcaatatta-tgtctcct	ATTAtc	CTTGtGCTT	-gtggcaacac--ccagctcaatgcacacgagaaacgtagaagaaca-----act	tgtaagc
D. Per	agtatatt	cgtccaatcta...43...	--aactaacccacaaatctttt	ATTAtc	CTTGtGCTT	-gtggcattatcccctgtccaatgcacacgagaaacgtagaagaacagatatatt	tgtaaa--
D. Pse	tgtatatt	cgtccaatcta...43...	--aactaatccacaaatctttt	ATTAtc	CTTGtGCTT	-gtggcattatcccctgtccaatgcacacgagaaacgtagaagaacagatatatt	tgtaaa--
D. Wil	gttctttc	gagtccaatcta...47...	tagataaaatttc--ttctttt	ATTAtc	CTTGtGCTT	-tgttccttttatctga--caaggcacacgagaaacgtaaataaaca-----aaa	gtactaaa
D. Yak	tccataat	aggtccagtcta...41...	cagattaatttcc--atccttt	ATTAtc	CTTGtGCTT	-gcaatatcat--tcagttcaatgcacacgagaaacgtaaaagaaca-----cta	gctttaaa
		*****	****	**	**	*****	*

id=48913 gene=FBgn0082998 name=snoRNA:Psi28S-1192d segment=chrX_17037967_17038101.-1 type=EN

D. Mel	aGGCtCAA	GTAGT	tat--ttgcatgattctttggg...171...	-cgatcgcataag	gttagcca
D. Sim	aGGCtCAA	GTAGT	tat--ttgcatgattgttcggg...172...	-cgatcgcataag	gtttccca
D. Sec	aGGCtCAA	GTAGT	tat--ttgcatgattgttcggg...171...	-cgatcgcataag	gttaccca
D. Ere	aGGCtCAA	GTAGT	tat--ttgcatgattctttggg...172...	-cgatcacataag	gttagcca
D. Gri	aGGCtCAA	GTAGT	tataattgcatgat--attggt...211...	-acgt-tcgttaag	gttaccca
D. Moj	aGGCtCAA	GTAGT	tatcgttgcatgat--ctgaaa...207...	-cgtaacgttaag	gttaccca
D. Per	aGGCtCAA	GTAGT	tatt-ttgcatgcatctttgc-...208...	-cgatttcataag	gttaacca
D. Pse	aGGCtCAA	GTAGT	tatt-ttgcatgcatcttgc-...208...	-cgatttcataag	gttaacca
D. Wil	aGGCtCAA	GTAGT	tatt-ttgcacgaatcttgct-...181...	-ttatcatctaag	gttacaca
D. Yak	aGGCtCAA	GTAGT	tat--ttgcatgatttattggg...170...	-tgatcacataag	gttagcca
	*****	*****	*****	****	*** **

id=22256 gene=FBgn0035060 name=Eps-15 segment=chr2R_20660527_20660734.-1 type=IN

Figure 246: CS=10



```

D.Me1 --ttaataat aggtccaatcta...40...ccagattaatttcc--atccttTATTATCCttGTGC-ttgaatattgc--ttagttcaatgcacatgagaacgtaaaggaacac---ta gctttaaa
D.Sim --ttaataat aggtccaatcta...40...ccagattaattcac--atccttTATTATCCttGTGC-ttgaatattac--ttagttcaatgcacacgagaacgtaaataaacac---ta gctttaaa
D.Sec --ttaataat aggtccaatcta...40...ccagattaattcaa--atccttTATTATCCttGTGC-ttgaatattac--ttagttcaatgcacacgcgaaacgtaaataaacac---ta gctttaaa
D.Ere --ggaaccgg gggccaatcta...40...ccagaacaatcacc--atccttTATTATCCttGTGC-ttgaatattac--ttagttcaatgcacacgagaacgtaaataaacac---tc gaataaat
D.Ana atctatt--t aggtccaatcta...40...ccagaaaaatcccc--atctttTATTATCCttGTGC-ttgaatattac--ttagttcaatgcacacgagaacgtaaataaacac---ta tcttctaa
D.Gri --ttaaaatt atgtccagtcta...42...--tggacaataacaaagtctttTATTATCCttGTGC-ttgtggcaacattatcagctcaatgcacacgagaacgtagaagaacaact-ca ttt---aa
D.Per --agtatatt cggccaatcta...42...--aaactaacccacaatctttTATTATCCttGTGC-ttgtggcattatcccctgtccaatgcacacgagaacgtagaagaacagatata tttgtaaa
D.Pse --tgtatatt cggccaatcta...42...--aaactaatccacaatctttTATTATCCttGTGC-ttgtggcattttcccctgtccaatgcacacgagaacgtagaagaacagatata tttgtaaa
D.Wil --gttctttc gaggccaatcta...46...ctagataaaatctt--ttctttTATTATCCttGTGC-ttgtgtctttttatctga--caaggcacacgagaacgtaaataaacac---aa gtactaaa
D.Yak --tccataat aggtccagtcta...40...ccagattaatttcc--atccttTATTATCCttGTGC-ttgaatattac--ttagttcaatgcacacgagaacgtaaataaacac---ta gctttaaa
***** **
** * ***** **
*** ** * ***** * **
*

```

id=48913 gene=FBgn0082998 name=snoRNA:Psi28S-1192d segment=chrX_17037967_17038101_-1 type=EN

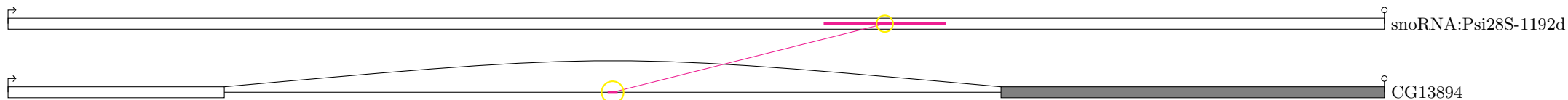
```

D.Me1 aatacgcg gtaagtgccagt---...3117...gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttgttcaggca...1795...ctttaatttcag ccatcaag
D.Sim aatacgcg gtaagtgccagt---...3107...gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttgttcaggca...1805...tttcttttcag ccatcaag
D.Sec aatacgcg gtaagtgccagt---...3089...gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttgttcaggca...1823...tttcttttcag ccatcaag
D.Ere aatacgcg gtaagtgccagt---...3086...gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttatttaggca...1826...ctttcttttcag ccatcaag
D.Ana aatacgcg gtgagtaaaagg---...3113...gccactagacctcaacattGCGCGGATcAATGttcaggccttgttcaggca...1799...tttttttttcag ctataaaa
D.Gri aatacgcg gtaaatgaaat---...2982...gccaccaaacctcgcacattGCGCGGATcAATGtttaaggccttgttcaggca...1930...tttatgttgag ctataaaa
D.Per gattcgcg gtaagtcagat---...2595...gccaccaagccctcaacattGCGCGGATcAATGttcaatgccttattcaggca...2317...tttttttttcag ccataaaa
D.Pse gattcgcg gtaagtcagat---...2594...gccaccaagccctcaacattGCGCGGATcAATGttcaatgccttattcaggca...2318...tttttttttcag ccataaaa
D.Wil aatacgcg gtaagt--tggtta...3246...gccactaaacctcaacattGCGCGGATcAATGttcaatgccttatttaggca...1666...tttcttttcag ccataaaa
D.Yak aatacgcg gtaagtggcagt---...3106...gccaccagccctcaacattGCGCGGATcAATGtttaatgccttgttcaggca...1806...cttcttttcag caatcaag
** * * * *
** * * * *
***** * * * ***** * * * ***** * * *
** * * * *

```

id=90705 gene=FBgn0037856 name=CG4674 segment=chr3R_6711810_6719451_1 type=IN

Figure 248: CS=10



```

D.Mel --ttaataat aggtccaatcta...40...----ccagattaatttcc--atccttTATTaTCCTTGTGcTTGTaatattgc--ttagttcaatgcacacgagaaacgtaaaggaaca---cta gctttaaa--
D.Sim --ttaataat aggtccaatcta...40...----ccagattaattcac--atccttTATTaTCCTTGTGcTTGTaatattac--ttagttcaatgcacacgagaaacgtaaaggaaca---cta gctttaaa--
D.Sec --ttaataat aggtccaatcta...40...----ccagattaattcaa--atccttTATTaTCCTTGTGcTTGTaatattac--ttagttcaatgcacacgagaaacgtaaaggaaca---cta gctttaaa--
D.Ere --ggaaccgg gggccaatcta...40...----ccagaaacatcacc--atccttTATTaTCCTTGTGcTTGTaatatcat--ttagttcaatgcacacgagaaacgtaaaggaaca---ctc gaataaat--
D.Ana atctatt--t aggtccaatcta...36...tggaccagaaaaatcccc--atTTTTTATTaTCCTTGTGcTTGTaacacact--ccagttcaatgcacacgagaaacgtaaaggaaca---cta tcttctaa--
D.Gri --ttaaaatt atgtccagtcta...42...tggacaataacaaa-----gtccttTATTaTCCTTGTGcTTGTggcaacattatcagctcaatgcacacgagaaacgtagaagaaca-----a ctcatntaa--
D.Moj --tatacact acgtccagtcta...47...aagatcaatattat-----gtctccTATTaTCCTTGTGcTTGTggcaacac--ccagctcaatgcacacgagaaacgtagaagaaca-----a cttgttaagc
D.Per --agtatatt cggccaatcta...42...-----aaactaacccacaaatctttTATTaTCCTTGTGcTTGTggcattatcccctgtccaatgcacacgagaaacgtagaagaacagatata tttgttaa--
D.Pse --tgtatatt cggccaatcta...42...-----aaactaatccacaaatctttTATTaTCCTTGTGcTTGTggcattttcccctgtccaatgcacacgagaaacgtagaagaacagatata tttgttaa--
D.Yak --tccataat aggtccagtcta...40...----ccagattaattccc--atccttTATTaTCCTTGTGcTTGCaatatcat--tcagttcaatgcacacgagaaacgtaaaggaaca---cta gctttaaa--
      *****
      * * * * *
  
```

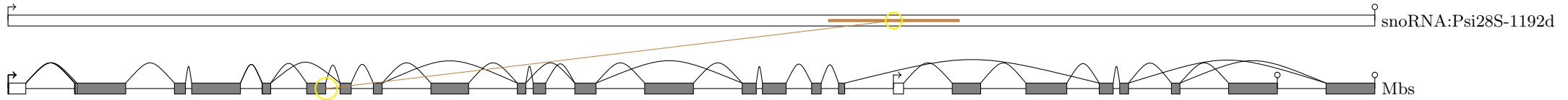
id=48913 gene=FBgn0082998 name=snoRNA:Psi28S-1192d segment=chrX_17037967_17038101_-1 type=EN

```

D.Mel cactggat gtg--agtggagtc...2069...catagcctgggcatag--aga--GCGACATAaaAGGAAATAtaaaccatttataaagcga-----..1718...-----actctcttgag attccagt
D.Sim ctctggat gtg--agtggagtc...2050...catagcctgggcatag--aga--GCGACATAaaAGGAAATAtaaaccatttataaagcga-----..1786...-----actctcttgag attccagt
D.Sec cactggat gtg--agtggagtc...2039...cacagcctgggcatag--aga--GCGACATAaaAGGAAATAtaaaccatttataaagcga-----..1757...-----actctcttgag attccagt
D.Ere cactggat gtg--agttagagtc...2092...catagcctgggcatag--aga--GCGACATAaaAGGAAATAtaaaccatttataaagcga-----..2002...-----actctcttgag attccagt
D.Ana ctctggaa gtg--agtaccgta...1892...catagcctgggcatag--aga--GCGACATAaaAGGAAATAAAAAccatttataaagcagtcag...1869...-----tcttctttcag atccgggt
D.Gri aggtttct ttg--aggaaactc...1633...----tatatatatatatagaaagACGACATAaaAGGAAATAtaaaccatttataaagcaa-----..2062...-----ctatctttgag ttgccgat
D.Moj ctccttaa gtg--agtaccact...1898...----gcagtgtatagctcagcGCGACATAaaAGGAAATAtaaaccatttataaagcaa-----..2022...atgttcttctcattgag c-----
D.Per --ctggaa gtgtaagtacatac...1811...-agagcc-atgccatagccagg--GCGACATAaaAGGAAATAtaaaccatttataaagcaa-----..1657...-----ttctttttgag cttttggt
D.Pse --ctggaa gtgtaagtacatac...1800...-agagcc-atgccatagccagg--GCGACATAaaAGGAAATAtaaaccatttataaagcaa-----..1634...-----ttctttttgag cttttggt
D.Yak cactggat gtg--agttagagtc...2101...catagcctgggcatag--aga--GCGACATAaaAGGAAATAtaaaccatttataaagcga-----..1946...-----actctcttgag attccagt
      ** ** * * * * *
  
```

id=48315 gene=FBgn0035157 name=CG13894 segment=chr3L_694993_698861_-1 type=I5

Figure 249: CS=10



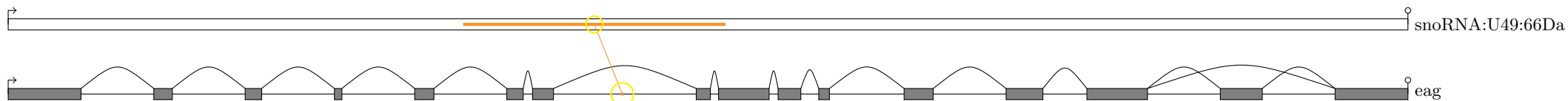
D. Mel	--ttaataat	aggtccaatcta...41...cagattaattcc--atccttt	ATTAtCCTTgTGCT	-tgtaatattgc--ttagttcaatgcacatgagaacgtaaaggaaca-----cta	gctttaa
D. Sim	--ttaataat	aggtccaatcta...41...cagattaattcac--atccttt	ATTAtCCTTgTGCT	-tgtaatattac--ttagttcaatgcacacgagaacgtaaatgaaca-----cta	gctttaa
D. Sec	--ttaataat	aggtccaatcta...41...cagattaattcaa--atccttt	ATTAtCCTTgTGCT	-tgtaatattac--ttagttcaatgcacacggaacgtaaatgaaca-----cta	gctttaa
D. Ere	--ggaaccgg	gggtccaatcta...41...cagaaacatcacc--atccttt	ATTAtCCTTgTGCT	-tgtaatatcat--ttagttcaatgcacacgagaacgtaaaagaaca-----ctc	gaataaat
D. Ana	atctatt--t	aggtccaatcta...41...cagaaaaatcccc--atctttt	ATTAtCCTTgTGCT	-tgtaaacacact--ccagttcaatgcacacgagaacgtaaaagaaca-----cta	tctttaa
D. Gri	--ttaaaatt	atgtccagtcta...43...--ggacaataacaaagtctttt	ATTAtCCTTgTGCT	-tgtggcaacattatcagctcaatgcacacgagaacgtagaagaaca-----act	catttaa-
D. Moj	--tatacact	acgtccagtcta...48...--agatcaatatta-tgtctcct	ATTAtCCTTgTGCT	-tgtggcaacac--ccagctcaatgcacacgagaacgtagaagaaca-----act	tgtaaac
D. Pse	--tgtatatt	cgggtccaatcta...43...--aactaatccacaaatctttt	ATTAtCCTTgTGCT	-tgtggcattttcccctgtccaatgcacacgagaacgtagaagaacagatatatt	tgtaaa--
D. Wil	--gttctttc	gagtccaatcta...47...tagataaattttc--ttctttt	ATTAtCCTTgTGCT	ttgtgtccttttatctga--caaggcacacgagaacgtaaatgaaca-----aaa	gtactaaa
		**** * ** * ***** **		*** ***** * ***** * *****	

id=48913 gene=FBgn0082998 name=snoRNA:Psi28S-1192d segment=chrX_17037967_17038101_-1 type=EN

D. Mel	aAGCGAAG	GTAGTcggc-atttgttttgcgtccc...111...tggtccttacag	ctgagaac
D. Sim	gAGCGAAG	GTAGTcggc-atttgttttgcgtcct...110...ttgctccttacag	ctgagaac
D. Sec	gAGCGAAG	GTAGTcggc-atttgttttgcgtcct...110...ttgctccttacag	ctgagaac
D. Ere	gAGCGAAG	GTAGTcggc-atttgttttgcgtccc...110...ttgcatttacag	ctgagaac
D. Ana	gAGCGAAG	GTAGTcggc-atttgttttgcgtcct...107...tacccttttcag	cggaaaat
D. Gri	gAGCGAAG	GTAGTcagtcgcctattgagagttg...119...ttgctccttacag	ctgaaaat
D. Moj	gAGCGAAG	GTAGTcgctaaattgttagtgtct...106...ttgcatttacag	ctgaaaat
D. Pse	gAGCGAAG	GTAGTcggc-atttgttttgcgtctc...130...tgcatcttttag	cggagaac
D. Wil	gAGCGAAG	GTAGTcggc-atttgttttgcgttga...123...gccaatttacag	ccgaaaat
	*****	***** * * * * *	** ** * * *

id=126489 gene=FBgn0005536 name=Mbs segment=chr3L_16056838_16056985_1 type=IN

Figure 250: CS=10.35



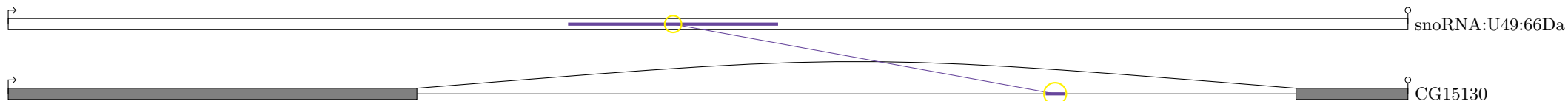
D.Me1	cgagctct	t--gcacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctagttaa-ccctctgaaagc-----a	agcaagca
D.Sec	cgcgctct	t--gcacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctagttaa-ccctctgaaagc-----a	agcaagca
D.Ere	caagctct	t--gcacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacatacatgaagctagttaa-ccctctgaaagc-----a	agcaagca
D.Ana	ctactgct	t--gcacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctaatttaa-cccactgaaagc-----a	agcaatag
D.Gri	actgcagc	t--gcacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctagttaa-cccactgaaagc-----a	agcaatag
D.Moj	cagtcatt	c--gcaaatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctaagtta-ccctctgaaagc-----a	aaaactgt
D.Per	ttgcctct	t--gcacatgatgATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctagttaa-cccactgaaagc-----a	agcatgca
D.Pse	ttgcctct	t--gcacatgatgATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctagttaa-cccactgaaagc-----a	agcatgca
D.Vir	gcaacaga	t--gcacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataatgaagctattttttgaaactgaaagcactgtctgccat-a	agcg---
D.Yak	cgagctct	tgcgacatGATGATAAAttGTCTTcTTGATaGGAAGTGccaactgacacataaatgaagctagttaa-cccactgaaagc-----a	agcaagct
		*** ***** ** ***** *	

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573_8594652_1 type=EN

D.Me1	ccatcatg	gtgagtgagaaa...423...ctgtctgctcgaa-ttgtgtcTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcaa-...1512...-actttttccag	gtgccata
D.Sec	ccatcatg	gtgagtgagata...388...ctgtctgctcgaa-ttgtgtcTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcaa-...1518...-actttttccag	gtgccata
D.Ere	ccatcatg	gtgagtgagata...384...ctgtctgctcgaa-ttgtgtcTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcaa-...1516...-actttttccag	gtgccata
D.Ana	ccatcatg	gtaagtgaagaa...263...-tgtctgctcgaa-ttgtgtcTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcaa-...1104...-ttcactttcag	gtgccata
D.Gri	ccatcatg	gtaagtgaagaa...263...-tgtctgctcgaa-ttgtgtcTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcaa-...1104...-ttcactttcag	gtgccata
D.Moj	ccatcatg	gtaagtcaatcc...589...ctgtctactcaaa-ttgtgcccTATTTCCGTCAAaAAGATGTTAaCATTttcacttaaattgcgctcag-...1902...-gtggccttcag	gtgccata
D.Per	ccatcatg	gtgagtgattct...500...ttgtctgctcaaa-ttgtgcccTATTTCCGTCAAaAAGATGTTAaCATTttcacttaaattgcgctcag-...1330...-tatgt-cttacag	gtgccata
D.Pse	ccatcatg	gtgagtgattct...460...ttgtctgctcaaa-ttgtgcccTATTTCCGTCAAaAAGATGTTAaCATTttcacttaaattgcgctcag-...1335...-atgtgcttacag	gtgccata
D.Vir	ccatcatg	gtaagtgaagcc...490...ttgtctactcaaa-ttgtgcccTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcag-...2125...-tcttgcgacag	gtgccata
D.Yak	ccatcatg	gtgagtgacata...462...ctgtctgctcgaa-ttgtgtcTATTTCCGTCAAaAAGATGTTAaCATTttcgcttaaattgcgctcaa-...2079...-actttttccag	gtgccata
		***** ** ** ***** ***** ** * *****	*** *****

id=42737 gene=FBgn0000535 name=eag segment=chrX.14887800_14889825_1 type=IN

Figure 251: CS=10



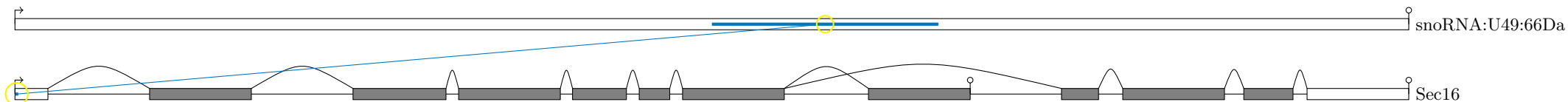
D.Me1	cgagctct	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctagtttaa-ccctctgaaagc-----a	agcaagca		
D.Sec	cgcgctct	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctagtttaa-ccctctgaaagc-----a	agcaagca		
D.Ere	caagctct	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacatacatgaagctagtttaa-ccctctgaaagc-----a	agcaagca		
D.Ana	ctactgct	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctaatTTAA-cccactgaaagc-----a	agcaatag		
D.Gri	actgcagc	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctagtttaattttactgaaagtacactgcatgctttaa	agcgatcg		
D.Moj	cagtcatt	c--gcaaatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctaaagttac-ttaactgaaagc-----a	aaaactgt		
D.Per	ttgcctct	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctagtttaa-cccactgaaagc-----a	agcatgca		
D.Pse	ttgcctct	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctagtttaa-cccactgaaagc-----a	agcatgca		
D.Vir	gcaacaga	t--gcacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataatgaagctatTTTTTTgaactgaaagagcactgtctgccat-a	agcg---		
D.Yak	cgagctct	tgcgacatgatgataaattgtcttc	TTGATAGGAAGTGC	caactgacacataaatgaagctagtttaa-cccactgaaagc-----a	agcaagct		
			***	*****	**	****	*

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573.8594652.1 type=EN

D.Me1	gcagaagg	gtgagaaagtgg...761...	cctgccgttctctatca---	ca GCACCTTgCTTA ta TCAA attggaacagtacgatgatc...159...	catttctttcag	tgtgtgcc				
D.Sec	gcagaagg	gtaagaaagtgg...727...	cctgccgttctctatca---	ca GCACCTTgCTTA ta TCAA attggaacagtacgatgatc...154...	catttctttcag	tgtgtgcc				
D.Ere	gcagaagg	gtgagaaagtga...774...	tccatctcgcctctatca---	ca GCACCTTgCTTA ta TCAA attggaacagtacgatgatc...154...	cattgctttcag	tttgtgcc				
D.Ana	gcagaagg	gtaaggggagga...316...	cccgccacttctctgtca---	ca GCACCTTgCTTA ta TCAA attggagcagtacgatgatc...107...	tcatcctttcag	tttgccgc				
D.Gri	gcagaagg	gtatgtaaattt...558...	---aacacttttctatcaca	ca GCACCTTgCTTA ta TCAA attggaacaatcagatgatc...291...	tgtctgttgag	tgtgtgtg				
D.Moj	gcagaagg	gtaagacattta...779...	---tatcacttttctatca-	cgca GCACCTTgCTTA ta TCAA attggagcaatcagatgatc...216...	tctcatttcag	tctgtgag				
D.Per	acagaagg	gtgaggagccgc...292...	gctgccacttctctatca---	ca GCACCTTgCTTA ta TCAA actggaacagtacgatgatc...182...	attcatttcag	tttgtgct				
D.Pse	acagaagg	gtgaggagccgc...292...	gctgccacttctctatca---	ca GCACCTTgCTTA ta TCAA actggaacagtacgatgatc...192...	gttcatttcag	tttgtgcc				
D.Vir	gcagaagg	gtacgaatagc...507...	---gtcacttttctatcaca	ca GCACCTTgCTTA ta TCAA attggaacaatcagatgatc...210...	actcctttcag	tctgtgag				
D.Yak	gcagaagg	gtgagaaagtgg...690...	tccatctcgcctctatca---	ta GCACCTTgCTTA ta TCAA attggaacagtacgatgatc...154...	cattgctttcag	tttgtgcc				
			****	**	*	*****	**	***	**	*

id=22904 gene=FBgn0032860 name=CG15130 segment=chr2L.20423274.20424274.-1 type=IN

Figure 252: CS=10



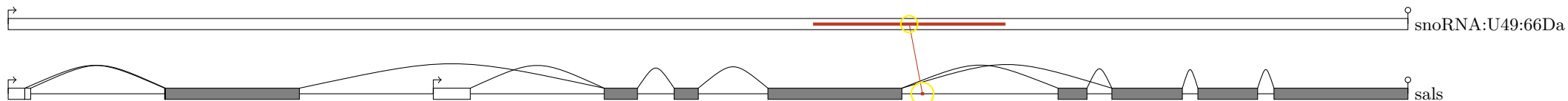
D.Mel	cgagctct	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctagttaa-ccctctgaaagc-----a	agcaagca
D.Sec	cgcgctct	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctagttaa-ccctctgaaagc-----a	agcaagca
D.Ere	caagctct	t--gcacatgatgataaattgtcttcttgataggTAGGAAGTGCCAACTGACacatacatgaagctagttaa-ccctctgaaagc-----a	agcaagca
D.Ana	ctactgct	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctaattaa-cccactgaaagc-----a	agcaatag
D.Gri	actgcagc	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctagttaa-cccactgaaagc-----a	agcactgc
D.Moj	cagtcatt	c--gcaaatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctaaagttac-ttaactgaaagc-----a	aaaactgt
D.Per	ttgcctct	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctagttaa-cccactgaaagc-----a	agcatgca
D.Pse	ttgcctct	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataaatgaagctagttaa-cccactgaaagc-----a	agcatgca
D.Vir	gcaacaga	t--gcacatgatgataaattgtcttcttgataggAAGTGCCAACTGACacataatgaagctattttttgaaactgaaagcactgtctgcccata	agcg---
D.Yak	cgagctct	tgcgacatgatgataaattgtcttcttgataggTAGGAAGTGCCAACTGACacataaatgaagctagttaa-cccactgaaagc-----a	agcaagct
		*** ***** ** ***** *	

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573.8594652.1 type=EN

D.Mel	aaGTCGaG	TTGGCATT	gatttc--attgctgcgttcgg-----...121...caagcgatttgt	gtaagtca
D.Sec	aaGTCGaG	TTGGCATT	gatttc--attgctgcgttcgg-----...121...caagcgatttgc	gtaagtca
D.Ere	aaGTCGaG	TTGGCATT	gaTTTG--attgctgcgttcggatcgaa...115...aaagcgatctgt	gtaagtca
D.Ana	aaGTCGaG	TTGGCATT	ggattt--ttgctgcgttttc-----...125...agcaatttttc	gtaagtgc
D.Gri	aaGTCGaG	TTGGCATT	gtactcgaaaaattccatt-----...148...aaagaaaggcgc	aggagtga
D.Moj	aaGTCGaG	TTGGCATT	gtactcgaaaaattccatt-----...61...gaaaagtctct	gtaagtgt
D.Per	taGTCGaG	TTGGCATT	gcacggcaggaatcttta-----...93...cgagtttttgt	gtaagtaa
D.Pse	taGTCGaG	TTGGCATT	gcacggcaggaatcttta-----...93...cgagtttttgt	gtaagtaa
D.Vir	aaGTCGaG	TTGGCATT	gtactcgaaaaattccatt-----...101...accataaaagt	attagaaa
D.Yak	aaGTCGaG	TTGGCATT	gaTTTG--attgctgcgttcggatcgaa...115...caagcgatttgt	gtaagtca
	*****	*****	**	**

id=20282 gene=FBgn0052654 name=Sec16 segment=chrX.12490106.12490267.1 type=E5

Figure 253: CS=10.4



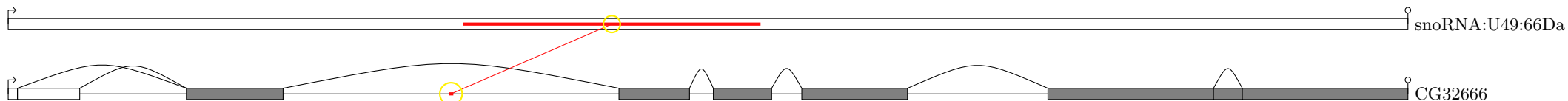
D.Me1	cgagctct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctagtttaa--ccctctgaaagc-----	a	agcaagca
D.Sim	cgcgctct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctagtttaa--ccctctgaaagc-----	a	agcaagca
D.Sec	cgcgctct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctagtttaa--ccctctgaaagc-----	a	agcaagca
D.Ere	caagctct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	atgaagctagtttaa--ccctctgaaagc-----	a	agcaagca
D.Ana	ctactgct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctaatTTAA--cccactgaaagc-----	a	agcaatag
D.Gri	actgcagc	t--gcacatgatgataaattgtcttcttGATAGAAAGTgc	CAACTGACACAT	aAATGaaagctagtttaattttactgaaagtacactgcattgcttgaa	a	agcgatcg
D.Per	ttgcctct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctagtttaa--cccactgaaagc-----	a	agcatgca
D.Pse	ttgcctct	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctagtttaa--cccactgaaagc-----	a	agcatgca
D.Vir	gcaacaga	t--gcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	ATATGaaagctattttttgaaactgaaaga----gcactgtctgcc	a	cataagcg
D.Yak	cgagctct	tgcgcacatgatgataaattgtcttcttgataggaagtgc	CAACTGACACAT	aaatgaagctagtttaa--cccactgaaagc-----	a	agcaagct
		*	*****	*****	***	*****

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573.8594652.1 type=EN

D.Me1	ctcttcag	gtaattc--cttttcagaaacgggttcggtaatatgtatatgt	-----	aggtaatggg--atgctgctcaaa-----	GTGTtGTCAGTTG	-----	agattaggattttggattac--...889...tctct-tgc-aaag	gcgacacc-
D.Sim	ctttacag	gtgagtc--cgtttcagattgggtacggttaa-----	t-----	agtttttggg--atgctgctcaaa-----	GTGTtGTCAGTTG	-----	agactaggatttcggattac--...897...tctct-tgc-aaag	gcgacacc-
D.Sec	ctctacag	gtgagtc--cg-ttgcatcggttcggtaatatgtatatgt	-----	agtttttggg--atgctgctcaaa-----	GTGTtGTCAGTTG	-----	agactaggatttcggattac--...914...tctct-tgc-aaag	gcgacacc-
D.Ere	ctctacag	gtaagtc--cgattagatcggtttggcacta-----	-----	tggttttggg--atgctgctcaaa-----	GTGTtGTCAGTTG	-----	agactaggatcggattac--...885...tctct-tgc-aaag	gcgacacc-
D.Ana	ccctgcag	gttagttttctttaagtctgggttcctcaaatatg-----	-----	atattggtggaccgctgttggaaaaa-----	GTGTtGTCAGTTG	-----	agtctaagggt--ggattatta...1855...tcttt-tgc-aagg	gctacgcg-
D.Gri	cactgcag	gtaagcg--accgaaaggagcacagacagatgtagcgttgcc	-----	acaattgtgg--acggggcacaacg-----	TGTTgGTGTtGTCAGTTG	aaATTTaCTATT	taaagttaaagtacaaaaat----...1236...tatttatat-aagg	gcaatac--
D.Per	ctctccag	gtcagtcgggggttcagggatcggggatgggatgtg-----	-----	gaatgatggg--gcgtcgtcga-----	GTGTtGTCAGTTG	-----	aggggaaagcg--gggttagtg...500...tctct-tgc-aagg	gctgtgcg-
D.Pse	ctctccag	gtcagtcgggggttcagggatcgttgatgggatgtg-----	-----	gaatgatggg--gcgtcgtcga-----	GTGTtGTCAGTTG	-----	aggggaaagcg--gggtagtg...507...tctct-tgc-aagg	gctgtgcg-
D.Vir	cgctgcag	gtaagcg--ac-----agcgcctcg-----	ggcgccttcacacttaacaactgtgg--gcgtggcactagactagtagaagatgc	CGTGTGTtGTCAGTTG	-----	-----	ttgtcagttgaagctctagc-----...984...-----tat-aagg	caaatacga
D.Yak	ctctacag	gtaagtc--atggttgatcggtttggcacca-----	-----	aagttttggg--attctgctgaaa-----	GTGTtGTCAGTTG	-----	agactaggattacggattac--...993...ctct-tgcaaaag	gcgacacc-
		* * * * *		*	*	*	*****	*

id=94158 gene=FBgn0051374 name=sals segment=chr3R.7264610.7265606.-1 type=IN

Figure 254: CS=10.4



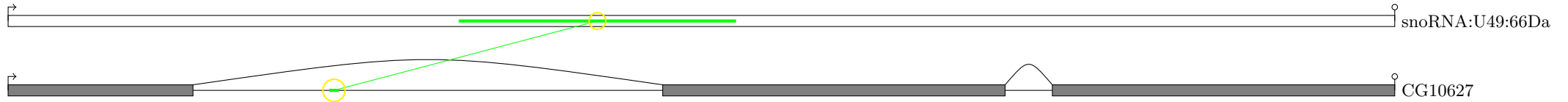
D.Mel	cgagctct	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctagtttaa-ccctctgaaagc-----	a	agcaagca		
D.Sec	cgcgctct	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctagtttaa-ccctctgaaagc-----	a	agcaagca		
D.Ere	caagctct	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacatacatgaagctagtttaa-ccctctgaaagc-----	a	agcaagca		
D.Ana	ctactgct	t--gcaca	TGATga	TAATtt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctaatTTAA-cccactgaaagc-----	a	agcaatag
D.Gri	actgcagc	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctagtttaattttactgaaagtacactgcattgctttaa	a	agcgatcg		
D.Moj	cagtcatt	c--gcaaatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctaaagtac-ttaactgaaagc-----	a	aaaactgt		
D.Per	ttgcctct	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctagtttaa-cccactgaaagc-----	a	agcatgca		
D.Pse	ttgcctct	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctagtttaa-cccactgaaagc-----	a	agcatgca		
D.Vir	gcaacaga	t--gcacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataatgaagctattttttgaaactgaaagagcactgtctgcccat-a	a	agcg---		
D.Yak	cgagctct	tgcgacatgatgataaatt	TGTCTT	TTGATag	GAAGTGC	caactgacacataaatgaagctagtttaa-cccactgaaagc-----	a	agcaagct		
		*** ***** ** ***** *							*	

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573.8594652.1 type=EN

D.Mel	tttgccag	gtgagtttttag...4586...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tcgcggttgagtcacttttcg...321...	ctccattcgag	gggcaaat	
D.Sec	tttgccag	gtgagtttttag...4588...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tcgcggttgagtcacttttcg...319...	ctccattcgag	gggcaaat	
D.Ere	tttgccag	gtgagtttttag...4552...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tcgcggttgagtcacttttcg...355...	ctccattcgag	gggcaaat	
D.Ana	tttgccag	gtgagttgctcg...4616...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	TTGaGTTG	agtcacattttattccattt--...283...	tctcgcttgag	gggcaaat	
D.Gri	tttgccag	gtgagtgagtga...4606...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tttcgacgaagcgactttga...302...	tttctattgag	aggcaaat	
D.Moj	tttgccag	gtgagtgagaaa...4630...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tttcgacgaagcgactttga...278...	gttctattgag	gggcaaat	
D.Per	tttgccag	gtgagtagtatc...4750...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tttcgacgaagcgactttga...157...	tttgttttgag	gggcaaat	
D.Pse	tttgccag	gtgagtagtatc...4741...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tttcgacgaagcgactttga...166...	cattttttgag	gggcaaat	
D.Vir	tttgccag	gtgagtgagaaa...4624...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tttcgacgaagcgactttga...284...	atattattgag	gggcaaat	
D.Yak	tttgccag	gtgagtttttag...4549...	caattgcttcattatggcac	GTACTTTGTCAAAAAGGCG	-----	tcgcggttgagtcacttttcg...358...	ctccattcgag	gggcaaat	
		***** ***** ** ***** *							*

id=56423 gene=FBgn0052666 name=CG32666 segment=chrX.11388033.11444509.1 type=IN

Figure 255: CS=10



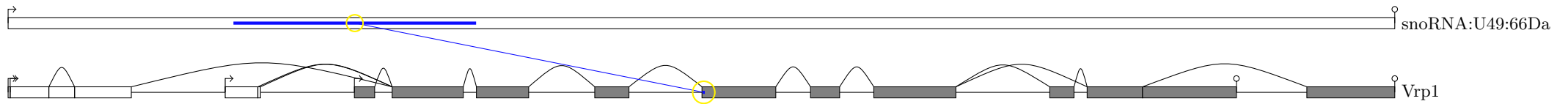
D. Mel	cgagctct	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacataaat	gaagctagtttaaccct	-ctgaaagc-----	a	agcaagca
D. Sim	cgcgctct	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacataaat	gaagctagtttaaccct	-ctgaaagc-----	a	agcaagca
D. Ere	caagctct	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacatacat	gaagctagtttaaccct	-ctgaaagc-----	a	agcaagca
D. Gri	actgcagc	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacataaat	gaagctagtttaattttact	gaaagtacactgcattgcttgaa		agcgatcg
D. Moj	cagtcatt	c--gcaaatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacataaat	gaagctaagtt-acttaact	gaaagc-----	a	aaaactgt
D. Per	ttgcctct	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacataaat	gaagctagtttaaccct	-ctgaaagc-----	a	agcatgca
D. Pse	ttgcctct	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GAAGTg	ccaactgacacataaat	gaagctagtttaaccct	-ctgaaagc-----	a	agcatgca
D. Vir	gcaacaga	t--gcacatgatgataaatt	TGTCTtc	TTGATAg	GGAAGTg	ccaactgacacataat	atgaagctatTTTTTTg	aaactgaaagcactgtctgccat	-a	agcg---
D. Yak	cgagctct	tgcgacatgatgataaatt	TGTCTtc	TTGATAg	GGAAGTg	ccaactgacacataaat	gaagctagtttaaccct	-ctgaaagc-----	a	agcaagct
	*		***	*****	*****	*****	*****	*****	*	*

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573.8594652.1 type=EN

D. Mel	cgcgcaa	gtgagtagttgc...159...	-----tatttttagatattgttcac-----	CTTTTATCAA	GGACA	tgccct-tctttcgccgttat...447...	tttttttttag	ggctgagt	
D. Sim	cgcgcaa	gtgagtagttgc...150...	-----tatttttagatattgttcac-----	CTTTTATCAA	GGACA	tgccct-tctttcgccgttat...465...	gcattttttcag	ggctgagt	
D. Ere	cgcgcaa	gtgagttgcctc...142...	-----tatttttagacattcttcac-----	CTTTTATCAA	GGACA	tgccct-tctttcgccgctt...544...	gttcctttcag	ggctgagt	
D. Gri	cgcgcaa	gtaagttgacca...263...	-----ttagaattaacttacgaca	CAC	TTTATCAA	GGACA	tgccct-tttaaaggtacaca...942...	ctttttgacag	agctgaat
D. Moj	cgcgcaa	gtgagtttactt...213...	--gttatattaatagaatttaa-----	TGCTTTATCAA	GGACA	tgccct-tttaaaggtacac-	...531...	ctttttgacag	agccgagc
D. Per	cgcgcaa	gtaagttatatt...195...	-----tatttttagatgctttccac-----	CTTTTATCAA	GGACA	tgccct-ttctggcatgtaca...228...	tttacattgacag	ggccgaat	
D. Pse	cgcgcaa	gtaagttatatt...195...	-----tatttttagatgctttccac-----	CTTTTATCAA	GGACA	tgccct-ttctggcatgtaca...228...	tttacattgacag	ggccgaat	
D. Vir	cgcgcaa	gtgagtttaca...184...	ccaatttatttatagaattt-----	CTTTCTTTATCAA	GGACA	tgccct-tttaaaggtaccca...434...	tttcttgaacag	agccgagt	
D. Yak	cgcgcaa	gtgagttgcctc...158...	-----tatttttagatattcttcac-----	CTTTTATCAA	GGACA	tgccct-tctttcgccgcat...550...	tctctttttcag	ggctgagt	
	*****	** ***	****	*****	*****	*****	*****	** ** *	

id=17071 gene=FBgn0036298 name=CG10627 segment=chr3L.12522349.12523034.-1 type=IN VIEW

Figure 256: CS=10.35



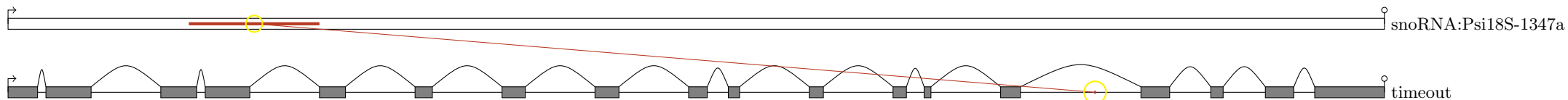
D.Mel	cgagctct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	cctctgaaagca	agcaagca
D.Sec	cgcgctct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	cctctgaaagca	agcaagca
D.Ere	caagctct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	cctctgaaagca	agcaagca
D.Ana	ctactgct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	ccactgaaagca	agcaatag
D.Gri	actgcagc	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	45...	gcattgcttgaa	agcgatcg
D.Moj	cagtcatt	cgcaa--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	taactgaaagca	aaaactgt
D.Per	ttgcctct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	ccactgaaagca	agcatgca
D.Pse	ttgcctct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	ccactgaaagca	agcatgca
D.Vir	gcaacaga	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	40...	gcactgtctgcc	cataagcg
D.Yak	cgagctct	tgcac--ATGAtGATAatTTGT	cttcttgataggaagtgcc...	28...	ccactgaaagca	agcaagct
		** ***** **				

id=122836 gene=FBgn0060292 name=snoRNA:U49:66Da segment=chr3L.8594573.8594652.1 type=EN

D.Mel	aacctaaa	gtaagtgtcgtc...353...	-----cactgtatctaaatccacc	ACAG	TATCTCGt
D.Sec	aacctaaa	gtaagtgtcgtc...375...	-----cactgtatctaaatccacc	ACAG	TATCTCGt
D.Ere	aacctaaa	gtaagtgtcgtc...349...	-----cactgtatttaaatccacc	ACAG	TATCTCGt
D.Ana	aatctgaa	gtgagtatggtg...205...	tgaccatacttgcccacac----	ACAG	TATCTCGt
D.Gri	aatcctag	gtgagttttggt...175...	-----ccaatataatcc-acacatcca	ACAG	TATCTCGt
D.Moj	aatcctag	gtgagttttggt...237...	-----acacgatacacacctgtac-	ACAG	TATCTCGt
D.Per	aatctgaa	gtaagtttatgc...218...	-----cgacgctatccatggtatcc-	ACAG	TATCTCGt
D.Pse	aatctgaa	gtaagtttatgc...219...	-----cgacgctatccatggtatcc-	ACAG	TATCTCGt
D.Vir	aatcctag	gtaagttttggt...238...	-----ccaatcgaaccgacacatcc-	ACAG	TATCTCGt
D.Yak	aacctaaa	gtaagtgtcgtc...346...	-----cactgtatttaaatccgcc	ACAG	TATCTCGt
	** ** *	** ** *	*	****	*****

id=25414 gene=FBgn0243516 name=Vrp1 segment=chr2R.17998444.17998832.-1 type=IN

Figure 257: CS=10.8



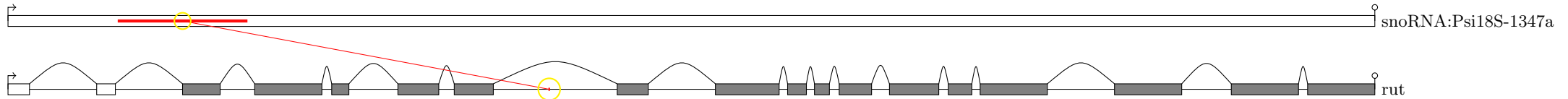
D.Me1	tcatatct	cgcaactcct	ACCCATTGGT	TGGT	cagatttatct-ctttttgac...	81...	-agcataaacaac	a---ctaaata
D.Sim	acaaatct	cgcaactcct	ACCCATTGGT	TGGT	cagatttatct-ctttttgac...	81...	-agcataaacaac	a---ctaaatg
D.Sec	acaaatct	cgcaactcct	ACCCATTGGT	TGGT	cagatttatct-ctttttgac...	81...	-agcattacaac	a---ctaaatg
D.Ere	atatact	cgcaacttct	ACCCATTGGT	TGGT	cagatttaacg-ctttttgac...	81...	-agcataaacaac	a---ctaaatg
D.Gri	caaagaca	agcaacttct	ACCCATTGGT	TGGT	caaa-aatccttcattttgag...	84...	--gcgttacaatc	ta--ctacaat
D.Moj	gtgagcta	ggcaacttat	ACCCATTGGT	TGGT	cagattatcc--cattttgagc...	80...	aagcgttaca--c	ta--ttaatta
D.Pse	tcctctat	agcaacttct	ACCCATTGGT	TGGT	caaaactagcattcctcgttg--...	82...	-agcattacattc	a---gaatatac
D.Vir	gtgataca	agcaacttct	ACCCATTGGT	TGGT	caaa-agtcttatattttgag...	81...	--gcgttacaatt	ta--gtaaatt
D.Wil	acaaactt	cgcaacttct	ACCCATTGGT	TGGT	caaatatatt--tattttgata...	88...	---gtaacaatt	tactctaaaca
D.Yak	gcctatgt	cgcaactcct	ACCCATTGGT	TGGT	cagatttaacc-ctttttgac...	82...	-agcataaacaac	a---ctaaatg
		*****	*****	*	*	*	***	*

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443_1 type=EN

D.Me1	tttttcag	gtaagataatca...	1679...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	298...	tccacatccaag	gccaagct
D.Sim	ttttccag	gtgagataatca...	1667...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	295...	ctctccacacag	gccaagct
D.Sec	ttttccag	gtgagataatca...	1562...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	294...	gctctccgcag	gccaagct
D.Ere	tttttcag	gtgagataatca...	1682...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	294...	ctctccacgag	gccaagct
D.Gri	tataccag	gtaagtgtggga...	1436...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	320...	tcctttccacag	gccaagct
D.Moj	tctaccag	gtgagtgaacca...	2110...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	380...	tctgctacacag	gccaagct
D.Pse	tcttcag	gtgagccggagc...	1581...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	323...	ctctaccacag	gccaagct
D.Vir	tctaccag	gtgagtgtttt...	2009...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	318...	ttccttcacag	gccaagct
D.Wil	tctatcag	gtgagtgtattg...	1149...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	399...	atccatccacag	gcaaagct
D.Yak	tatttcag	gtgagataatct...	1604...	gcatcatatgcaaagtcaaaa	ACCACTAATGGGT	ctgcgcaatcataggataaaa...	300...	ctctccacacag	gccaagct
	* * **	** **		*****				* **	** *****

id=10654 gene=FBgn0038118 name=timeout segment=chr3R.8984826_8986879_1 type=IN

Figure 258: CS=10.8



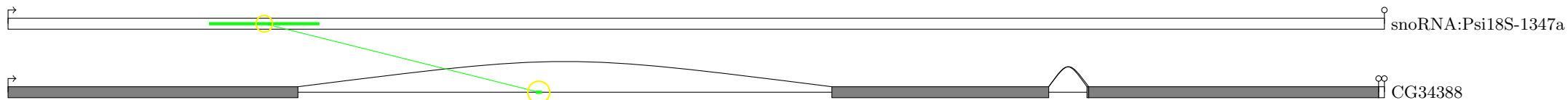
D.Mel	tcatatct	cgcAACTccTACCCATTggTTGGtcagatttatctcttttga...	82...	-agcataacaa---ac	actaaata
D.Sim	acaaatct	cgcAACTccTACCCATTggTTGGtcagatttatctcttttga...	82...	-agcataacaa---ac	actaaatg
D.Sec	acaaatct	cgcAACTccTACCCATTggTTGGtcagatttatctcttttga...	82...	-agcattacaa---ac	actaaatg
D.Ere	atatatct	cgcAACTtcTACCCATTggTTGGtcagatttaacgcttttga...	82...	-agcataacaa---ac	actaaatg
D.Gri	caaagaca	agcAACTtcTACCCATTggTTGGtcaaaaatccttcatttga...	85...	--gcgttacaatcta-	-ctacaat
D.Moj	gTGAGctA	GGCAACTtaTACCCATTggTTGGtcaga-ttatcccatttgag...	81...	aagcgttaca--cta-	-ttaatta
D.Vir	gtgataca	agcAACTtcTACCCATTggTTGGtcaaaagtcttatatttga...	82...	--gcgttacaattta-	-gtaaatt
D.Wil	acaaactt	cgcAACTtcTACCCATTggTTGGtcaaaatattt-tatttga...	89...	---gtaacaatttac	tctaaaca
D.Yak	gcctatgt	cgcAACTccTACCCATTggTTGGtcagatttaacccttttga...	83...	-agcataacaa---ac	actaaatg
		*****			**

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443_1 type=EN

D.Mel	cgcgcaag	gtaagtgggtgtt...366...	ttgtttcctttcgttttcctt	TCAGGATGcGGTAAGTT	tgccctcaccatgtctaagt	-----	...905...	tctccgatc--cag	gtgatagc
D.Sim	cgcgaaaag	gtaagtgggtgtt...352...	ttgtttcctttcgttttcctt	TCAGGATGcGGTAAGTT	tgccctcaccatgtctaagt	-----	...920...	tctccgatc--cag	gtgatagc
D.Sec	cgcgaaaag	gtaagtgggtgtt...352...	ttgtttcctttcgttttcctt	TCAGGATGcGGTAAGTT	tgccctcaccatgtctaagt	-----	...920...	tctccgatc--cag	gtgatagc
D.Ere	cgcgcaag	gtaagtgggtgtt...378...	ttgtttcctttcgttttcctt	TCAGGATGcGGTAAGTT	tgccctcaccatgtctaagt	-----	...847...	tctccgatc--cag	gtgatagc
D.Gri	cacgcaag	gtaagtggccag...348...	ttctttcctttcgtttactt	TCAGGATGcGGTAAGTT	caccgtacttataaatatag	-----	...1119...	tctctgatc--tag	gtaatacg
D.Moj	cgcgcaag	gtaagtgtctcaa...374...	tcctttcctttcgtttactt	TCAGGATGcGGTAAGTT	GCCTtaCTTAT	aagtatagtatgaaatgtac	...1061...	tctctgatc--tag	gtaatacg
D.Vir	cgcgcaag	gtaagtgtctcac...273...	ttctttcctttcgtttactt	TCAGGATGcGGTAAGTT	caccttacatataagtatag	-----	...983...	tctctgatc--tag	gtaatacg
D.Wil	cgcgtaag	gtaagaagctta...407...	tattcctttcctttcgtttactt	TCAGGATGcGGTAAGTT	tagcccataaagaaaaaaa	-----	...977...	-tccgatcctttag	gtaatacg
D.Yak	cgcgcaag	gtaagtgggtgtt...354...	ttgtttcctttcgttttcctt	TCAGGATGcGGTAAGTT	tgccctcaccatgtctaagt	-----	...924...	tctccgatc--cag	gtgatagc
	* ** **	*****						** ** **	** ** **

id=12576 gene=FBgn0003301 name=rut segment=chrX.14691556_14692907_-1 type=IN

Figure 259: CS=11.7



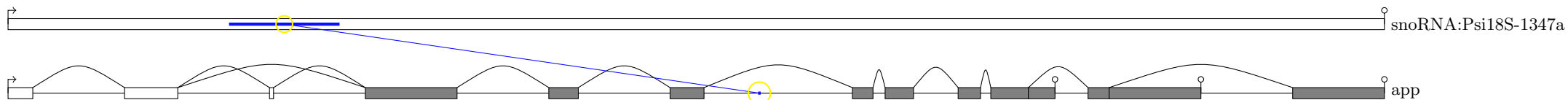
D. Mel	tcatatct	cgcaactccta	CCCATGGTTGGT	cagatttatct-cttttgac...	81...	-agcataacaaac	a---ctaaata
D. Sim	acaaatct	cgcaactccta	CCCATGGTTGGT	cagatttatct-cttttgac...	81...	-agcataacaaac	a---ctaaatg
D. Sec	acaaatct	cgcaactccta	CCCATGGTTGGT	cagatttatct-cttttgac...	81...	-agcattacaaac	a---ctaaatg
D. Ere	atataatct	cgcaacttcta	CCCATGGTTGGT	cagatttaacg-cttttgac...	81...	-agcataacaaac	a---ctaaatg
D. Gri	caaagaca	agcaacttcta	CCCATGGTTGGT	caaa-aatccttcattttgag...	84...	--gcgttacaatc	ta-ctacaat
D. Moj	gtgagcta	ggcaac	TATaCCCATGGTTGGT	cagattatcc--cattttgagc...	80...	aagcgttaca-c	ta--ttaatta
D. Pse	tcctctat	agcaacttcta	CCCATGGTTGGT	caaaactagcattcctcgttg--...	82...	-agcattacattc	a---gaatatac
D. Vir	gtgataca	agcaacttcta	CCCATGGTTGGT	caaa-agtcttatattttgag...	81...	--gcgttacaatt	ta--gtaaaat
D. Wil	acaaactt	cgcaacttcta	CCCATGGTTGGT	caaatataatt--tattttgata...	88...	---gtaacaatt	tactctaaaca
D. Yak	gcctatgt	cgcaactccta	CCCATGGTTGGT	cagatttaacc-cttttgac...	82...	-agcataacaaac	a---ctaaatg
		*****	*****	* *		* **	*

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443.1 type=EN

D. Mel	gcgccag	gtaag---gagtcca...	370...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga----	761...	cctcaccatcag	gaacaaag
D. Sim	gcgccag	gtaag---gaatcca...	401...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga----	755...	cctcttcgtcag	gaacaaag
D. Sec	gcgccag	gtaag---gaatcca...	391...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga----	760...	tctctcatcag	gaacaaag
D. Ere	gcgccag	gtaa---gagtccag...	372...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccgc----	749...	ccgcctcatcag	gaacaaag
D. Gri	gcggtcag	gtgagctaagct----	292...	gtcgaccaaaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagttcgac----	1169...	atttacgcagac	aaatagag
D. Moj	gcagccag	gtgagtcagga----	276...	gtcggcggaaaaaacacgcaaa	ACCAATTAATGGG	cGTGAAAAA-atcagtgcgacgacga...	1382...	caccttcaacag	aaccagag
D. Pse	gccgccag	gtaag---cggcagc...	301...	gtcggccagaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagttagagt----	1344...	ttcatttaaag	aaacaaag
D. Vir	acggtcag	gtgagtcagga----	273...	gtcagccaaaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagttcgtc----	1206...	tcatcccaacag	aaatagag
D. Wil	gcgccag	gtgag---aggacct...	258...	gtcggccagaaaacacgcaaa	ACCAATTAATGGG	cgtgaaaaaacaacaaagcca-----	954...	gttttcttctag	aaacaaag
D. Yak	gcgccag	gtaag---atgtggg...	397...	gtcgactgggaacacgcaaa	ACCAATTAATGGG	cgtgaaaaa-atcagtaccga----	782...	cctcctcatcag	gaacaaag
		* * **	** *	*** *	*****	*****	**	**	* * **

id=10415 gene=FBgn0085417 name=CG34388 segment=chr3R.10245044_10246251.1 type=IN

Figure 260: CS=10.8



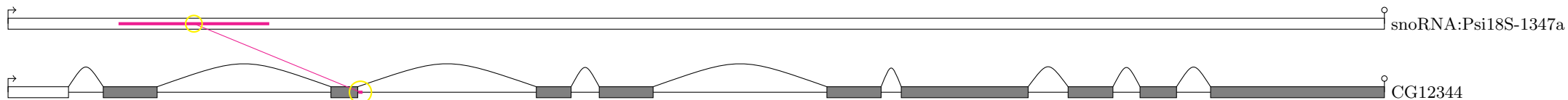
D.Mel	tcatatct	cgcaactcctacc	ATTGGTTGGTCAGA	---tttatctcttttgacacga...	77...-agcataacaac	a---ctaaata
D.Sim	acaaatct	cgcaactcctacc	ATTGGTTGGTCAGA	---tttatctcttttgacacga...	77...-agcataacaac	a---ctaaatg
D.Sec	acaaatct	cgcaactcctacc	ATTGGTTGGTCAGA	---tttatctcttttgacacga...	77...-agcattacaac	a---ctaaatg
D.Ere	atatact	cgcaacttctacc	ATTGGTTGGTCAGA	---ttaacgcttttgacacga...	77...-agcataacaac	a---ctaaatg
D.Gri	caaagaca	agcaacttctacc	ATTGGTTGGTCAG	---aaaatccttcattttgagtc...	82...-gcgttacaatc	ta--ctacaat
D.Moj	gtgagcta	ggcaacttatacc	ATTGGTTGGTCAG	---attatcccattttgagccag...	77...aagcgttaca--c	ta--ttaatta
D.Pse	tcctctat	agcaacttctacc	ATTGGTTGGTCAG	aaatagcattcctcgttgat---	80...-agcattacattc	a---gaatc
D.Vir	gtgatata	agcaacttctacc	ATTGGTTGGTCAG	---aaagtcttatattttgagct...	79...-gcgttacaatt	ta--gtaaatt
D.Wil	acaaactt	cgcaacttctacc	ATTGGTTGGTCAG	---aattaattattttgatata...	86...---gtaacaatt	tactctaaaca
D.Yak	gcctatgt	cgcaactcctacc	ATTGGTTGGTCAG	---atttaacccttttgacacg...	79...-agcataacaac	a---ctaaatg
		*****	*****	****	* **	*

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443_1 type=EN

D.Mel	gtccctgg	gtgagtagtgat...	253...-c-----aacagcctctcgtcgtc-	TCTGACttTAACcCAAT	tc--caa---c-ggcaaccgctgagg...	1232...ctctctttgcag	gtgggaaa
D.Sim	gtccctgg	gtgagtagtgat...	253...-acc-----aacagcctctcgtcgtc-	TCTGACttTAACcCAAT	tc--caa---c-ggcaaccgctgagg...	1247...ctctctttgcag	gtgggaaa
D.Sec	gtccctgg	gtgagtagtgat...	251...-acc-----aacagcctctcgtcgtc-	TCTGACttTAACcCAAT	tc--caa---c-ggcaaccgctgagg...	1227...ctctctttgcag	gtgggaaa
D.Ere	gtccctgg	gtgagtagtgat...	267...-acc-----aacagcctctcgtcgtc-	TCTGACttTAACcCAAT	tc--caa---c-ggcaaccgctgagg...	1215...ctctctttgcag	gtgggaaa
D.Gri	gtccctgg	gtaagtacatag...	91...ttgcc-----cagcag-cggcagcgc-	TGACttTAACcCAAT	ttcgg-----c-gccaactgctgtgc...	1292...gtctctttgcag	gtgggcaa
D.Moj	gtccctgg	gtaagtgcgagt...	30...-ggcatcgaaaacaactttca-----	CTGACttTAACcCAAT	tcctg-----c-gccaactgctgag...	1148...ctctctttccag	gtgggcaa
D.Pse	gtccctgg	gtaagtcaagga...	213...-----gcaactgctcactgcgggtc-	TGACttTAACcCAAT	tccacag---c-gccaaccgctga-	934...ccctcgttgag	gtgggaaa
D.Vir	gtccctgg	gtaagtacaaat...	93...-tgcc-----caccgcgcggtgcgc-	TGACttTAACcCAAT	ttctg-----c-cccaactgctgag...	1537...gtctctttgcag	gtgggaaa
D.Wil	gtccctgg	gtaagttgacaa...	233...-----tgctccgctctgttgggctc-	TGACttTAACcCAAT	ttttgagtttc-gccaaccgc-----	1630...gtatctttcag	gtgggaaa
D.Yak	gtccctgg	gtgagtagtgat...	264...-----acagcctctcgtcgtcgtc	CTGACttTAACcCAAT	tc--caa---c-ggcaaccgctgagg...	1253...ctctctttgcag	gtgggaaa
	*****	** **	*	*****	* ** ** *	* ** ** *	*****

id=69130 gene=FBgn0260941 name=app segment=chr3L.12207152_12208717_-1 type=IN

Figure 261: CS=13.8



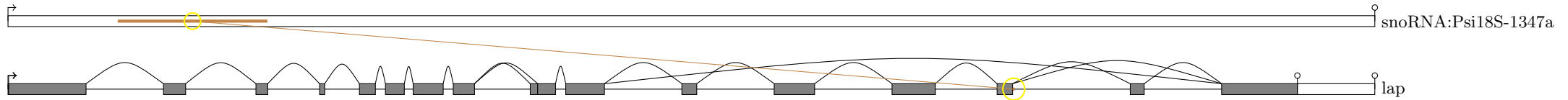
D.Mel	tcatatct	cgCAACTccTACCCaTTGGT	tggtcagatttatctctttt	---.85...-agcataacaaac	a---ctaaata
D.Sim	acaaatct	cgCAACTccTACCCaTTGGT	tggtcagatttatctctttt	---.85...-agcataacaaac	a---ctaaatg
D.Sec	acaaatct	cgCAACTccTACCCaTTGGT	tggtcagatttatctctttt	---.85...-agcattacaaac	a---ctaaatg
D.Ere	atatatct	cgCAACTtcTACCCaTTGGT	tggtcagatttaacgctttt	---.85...-agcataacaaac	a---ctaaatg
D.Gri	caagaca	agcAACTtcTACCCaTTGGT	tggtcaaaaatccttcattt	---.88...-gcgttacaatc	ta--ctacaat
D.Moj	gtgagcta	ggCAACTtaTACCCaTTGGT	tggtcagattatcccatttt	---.84...aagcgttaca-c	ta--ttaatta
D.Pse	tcctctat	agcAACTtcTACCCaTTGGT	tggtcaaaa---ctagcattcctc	...86...-agcattacattc	a---gaatatac
D.Vir	gtgataca	agcAACTtcTACCCaTTGGT	tggtcaaaagtcttatattt	---.85...-gcgttacaatt	ta--gtaaatt
D.Wil	acaaacTT	CGCAACTtcTACCCaTTGGT	tggtcaaaattaatttatttt	---.92...-gtaacaatt	tactctaaaca
D.Yak	gcctatgt	cgCAACTccTACCCaTTGGT	tggtcagatttaaccctttt	---.86...-agcataacaaac	a---ctaaatg
		*****	*****	**	* ** *

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443.1 type=EN

D.Mel	tGTCAAGG	GTAAGTTG	-----aactccaaccaatagcaatg-----	...1371...gatttattgcag	aaatacga
D.Sim	tGTCAAGG	GTAAGTTG	-----aactccaccaatagcaatg-----	...1977...gatttattgcag	aaatacga
D.Sec	tGTCAAGG	GTAAGTTG	-----aactccaccaatagcaatg-----	...1327...gatttattgcag	aaatacga
D.Ere	tGTCAAGG	GTAAGTTG	-----aactccacc-atagcccac-----	...1318...gatttattgcag	aaatacga
D.Gri	tGTCAAGG	GTAAGTT	-----ttatttctcttctctc-----ttct-----	...1638...ttgtttttcag	aaatgcga
D.Moj	tGTCAAGG	GTAAGTTG	-----gcaatatat---ttt-----ttatacc...	...1845...ttttaattgcag	aaatgcgt
D.Pse	tGTCAAGG	GTAAGTT	-----aaaccagcc-cagaggccg-----	...1033...gatttattgcag	aaatacga
D.Vir	tGTCAAGG	GTAAGTT	-----tgcaatatatgcatct-----gcat-----	...1974...gcttatttcag	aaatgcga
D.Wil	tGTCAAGG	GTAAGTT	ttTGAAtttctcttctcactt-----ttct-----	...843...tctatccaacag	aaatacgc
D.Yak	tGTCAAGG	GTAAGTTG	-----aactccacc-atagctgtac-----	...1385...gatttattgcag	aaatacga
	*****	*****		*	*** ** *

id=56400 gene=FBgn0033558 name=CG12344 segment=chr2R.6719219_6720629_-1 type=IN VIEW

Figure 262: CS=13.8



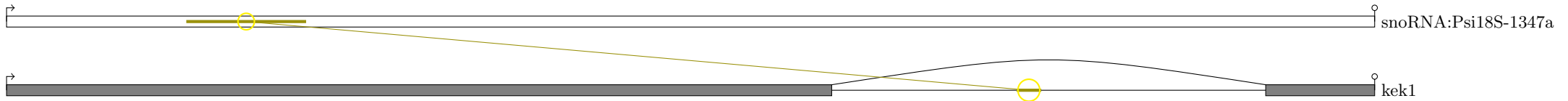
D.Mel	tcatatct	cgc----	AACTccTACCcATTGG	ttggtcagatttatctcttt---.86...-agcataacaac	a---ctaaata
D.Sim	acaaatct	cgc----	AACTccTACCcATTGG	ttggtcagatttatctcttt---.86...-agcataacaac	a---ctaaatg
D.Sec	acaaatct	cgc----	AACTccTACCcATTGG	ttggtcagatttatctcttt---.86...-agcattacaac	a---ctaaatg
D.Ere	atatact	cgc----	AACTtcTACCcATTGG	ttggtcagatttaacgcttt---.86...-agcataacaac	a---ctaaatg
D.Gri	caaagaca	agc----	AACTtcTACCcATTGG	ttggtcaaaaatccttcatt---.89...-gcgttacaatc	ta--ctacaat
D.Moj	gtgagcta	ggc----	AACTtaTACCcATTGG	ttggtcagattatcccatt---.85...aagcgttaca--c	ta--ttaatta
D.Pse	tcctctat	agc----	AACTtcTACCcATTGG	ttggtcaaa---ctagcattcct..87...-agcattacattc	a---gaatc
D.Vir	gtgataca	agc----	AACTtcTACCcATTGG	ttggtcaaaagtcttatatt---.86...-gcgttacaatt	ta--gtaaatt
D.Wil	-----aca	aac TTCGcAACTtcTACCcATTGG	ttggtcaaattaatttattt---.93...-gtaacaatt	tactctaaaca	
		*	**** ***** *	**	* ** *

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443.1 type=EN

D.Mel	gt CCAATG	GTGAGTT	----ttgcctac-tctaactcttct--...1137...tgcaatacgtag	gcacatgg
D.Sim	gt CCAATG	GTGAGTT	----ttgcctac-tctaactcttct--...1126...tgcaatacgtag	gcacatgg
D.Sec	gt CCAATG	GTGAGTT	----ttgcctac-tctaactcttct--...1116...tgcaatacgtag	gcacatgg
D.Ere	gt CCAATG	GTGAGTT	----ttgcctac-tctaactcttct--...1103...tgcaatacgtag	gcacatgg
D.Gri	gt CCAATG	GTGAGTT	-----atgacaactaactctctctc...1281...atgtatacctag	gcacatgg
D.Moj	gt CCAATG	GTGAGTT	----atgaccacagctaaactctct--...1265...atgcatacatag	gcacatgg
D.Pse	gt CCAATG	GTGAGTT	----atgcc-ac-tctaactctctaa...1152...atattaatag	gcacatgg
D.Vir	gt CCAATG	GTGAGTT	----ttgaccacaactaactctct--...1273...atgtatataaag	gcacatgg
D.Wil	gt CCAATG	GTGAGTT	TGAA ctcta-ac-tctaac-ctctacc...1426...tgtaatcggtag	gcacatgg
	*****	*****	** **** **	** *****

id=112207 gene=FBgn0086372 name=lap segment=chr3R.3022116_3023291.1 type=IN

Figure 263: CS=10.8



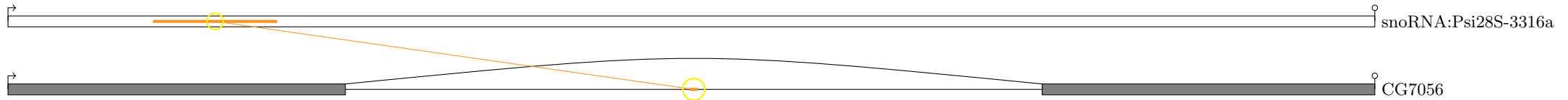
D. Mel	tcatatct	cgcaactcc	TACCCATTGg	TGGT	cagatttatct-ctttttgac...	81...	-agcataacaac	a---ctaaata
D. Sim	acaaatct	cgcaactcc	TACCCATTGg	TGGT	cagatttatct-ctttttgac...	81...	-agcataacaac	a---ctaaatg
D. Sec	acaaatct	cgcaactcc	TACCCATTGg	TGGT	cagatttatct-ctttttgac...	81...	-agcattacaac	a---ctaaatg
D. Ere	atatact	cgcaacttc	TACCCATTGg	TGGT	cagatttaacg-ctttttgac...	81...	-agcataacaac	a---ctaaatg
D. Gri	caaagaca	agcaacttc	TACCCATTGg	TGGT	caaa-aatccttcatTTTgag...	84...	--gcgttacaatc	ta--ctacaat
D. Moj	gtgagcta	ggcaacttat	ACCCATTGg	TGGT	cagattatcc--cattttgagc...	80...	aagcgttaca--c	ta--ttaatta
D. Pse	tcctctat	agcaacttc	TACCCATTGg	TGGT	caaaactagcattcctcgttg--...	82...	-agcattacattc	a---gaatatic
D. Vir	gtgataca	agcaacttct	ACCCATTGg	TGGT	caaa-agtcttatattttgag...	81...	--gcgttacaatt	ta--gtaaatt
D. Wil	acaaactt	cgcaacttc	TACCCATTGg	TGGT	caaatatatt--tattttgata...	88...	---gtacaatt	tactctaaaca
D. Yak	gcctatgt	cgcaactcc	TACCCATTGg	TGGT	cagatttaacc-ctttttgac...	82...	-agcataacaac	a---ctaaatg
		*****	*****	*	*	*	***	*

id=76507 gene=FBgn0083054 name=snoRNA:Psi18S-1347a segment=chr2R.14030307_14030443.1 type=EN

D. Mel	-----tcacggtc	gtcgccgacgcc...	71...	ccaacgggcagccaattaac	GCCAA	ga	CGAT	acGGGTG	tggcaaaagggcggtgtgcc...	110...	tctcggcggaag	ga-acggcg
D. Sim	-----tcccggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAA	ga	CGAT	acGGGTG	tggcagaagggcggtgtgcc...	110...	tctcgggggaag	ga-actgcg
D. Sec	-----tcccggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAA	ga	CGAT	acGGGTG	tggcagaagggcggtgtgcc...	110...	tctcgggggaag	ga-actgcg
D. Ere	-----tcccggtc	gtcgccgacgcc...	71...	ccaacgggcagccaatcaac	GCCAA	ga	CGAT	acGGGTG	tggcagaagggcggtgtgcc...	110...	tctcgggggaag	ga-actgcg
D. Gri	tgggggtggcagcagcagcgg--	-----	57...	caaatgggcagcccgtaaac	GCCAA	ga	CGAT	acGGGTG	tggcaaaagggggcggtgtgcc...	109...	ac-cagccaca	aacacacac
D. Moj	-----gctaggtc	atcgcccacgcc...	56...	caaatgggcagcccgtgaat	GCCAA	ga	CGAT	acGGGTG	ctggcagaagggggcggtgtgc...	112...	ccacagtcacac	ag-acacag
D. Pse	-----gcgcgctc	ctccccacccc...	32...	ccaacgggcagcccataat	GCCAA	ga	CGAT	acGGGTG	tggcagaagggcggtgtgcc...	106...	tcccagcggcc	cc-cctcgc
D. Vir	-----agcagcgtc	tcggccagctc-	53...	ccaacgggcagcccgtaaac	GCCAA	ga	CGAT	acGGGTG	ctggcagaagggggcggtgtgc...	111...	accatacagac	ac-ccacac
D. Wil	-----tctcgatc	atcgccaacacc...	26...	caatggccaaccatcaat	GCCAA	ga	CGAT	aaGGGTA	tggcagaagggggcggtgtgcc...	99...	-agcaacaacca	agaacaaca
D. Yak	-----tccaggtc	gtcgccaacgcc...	83...	ccaacgggcagccaatcaac	GCCAA	ga	CGAT	acGGGTG	tggcagaagggcggtgtgcc...	94...	gtgtaagcgaag	ga-gcgggg
	* *				*****	*	*	*****	*****	*	*	*

id=46315 gene=FBgn0015399 name=kek1 segment=chr2L.12818996.12819258.-1 type=IN

Figure 264: CS=12



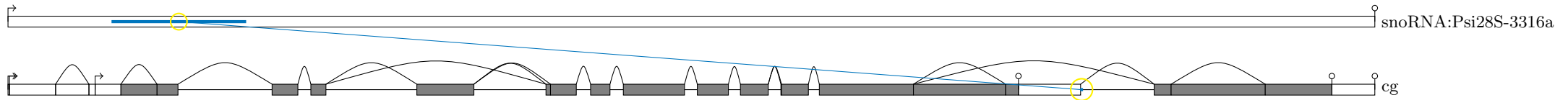
D. Mel	-----gtTTTATG	TCGCacCTAAaAGCGTTTT	-ctcgtcggctcgtt-aaatgc-----	..81...-ctgactacaagt	gatctcgg--
D. Sim	-----ctTTTATG	TCGCacCTAAaAGCGTTTT	-ctcgtcggctcgtt-aaatgc-----	..81...-ctgactacaagt	gatctcgg--
D. Sec	-----ctTTTATG	TCGCacCTAAaAGCGTTTT	-ctcgtcggctcgtt-aaatgc-----	..81...-ctgactacaagt	gatctcag--
D. Ere	-----gtTTTATG	TCGCacCTAAaAGCGTTTT	TCGT-cggctt-gtt-aaatgctcttg..	.76...-ctgactacaagt	gatctccc--
D. Ana	-----ataaccactagcac-----	-----CTAAaAGCGTTTT	-cttgccagcccgtt-aactgc-----	..81...-tttgaataagt	gactccca--
D. Gri	atthttacatcgatttgcagcac-----	-----CTAAaAGCGTTTT	TTGT-aggccaatt-caatgctcttg..	.90...-gattaagttt	atgatattga
D. Moj	-----atthttacatcgatttgcagcac-----	-----TTAA TTGCacCTAAaAGCGTTTT	TTGT-aggccaatt-caatgctcttg..	.74...-ctgagtacatt	gaaaatta--
D. Per	-----aagttaaccgcgac-----	-----CTAAaAGCGTTTT	cttgatagtcctctttgaaatg-----	..84...-ctggctacagat	gatccttg--
D. Pse	-----aagttaaccgcgac-----	-----CTAAaAGCGTTTT	cttgatagtcctctttgaaatg-----	..84...-ctggctacagat	gatccttg--
D. Vir	-----atthttggtgctgcac-----	-----CTAAaAGCGTTTT	-cttgtaacgccaact-caatgc-----	..91...ccagattaatth	aag---tagg
		*****	* * * *	* * *	

id=90268 gene=FBgn0082972 name=snoRNA:Psi28S-3316a segment=chr2R.17214244-17214375_1 type=EN

D. Mel	ctgccaag	gtgag--tacttca...1652...--t-tgttt--	ggcttatctaaca-AAAATGCTaTTAGagGCGATtaATAGG	cgctgtccatcatcttatag...1055...-ttaaaccatag	gattcccc
D. Sim	ctgccaag	gtgag--tggttca...1771...--t-tgttt--	ggcttatctaaca-AAAATGCTaTTAGagGCGATtaATAGG	cgctgtccatcatcttatag...1037...-tataaccgtag	gattcccc
D. Sec	ctgccaag	gtgag--tggttca...1716...--t-tgttt--	ggcttatctaaca-AAAATGCTaTTAGagGCGATtaATAGG	cgctgtccatcatcttatag...1037...-tataaccgtag	gattcccc
D. Ere	ctgccaag	gtgag--tagttca...1508...gattt-gttt--	ggcttatctaaACG-AAAATGCTaTTAGagGCGATtaATAGG	cgctgtccatcatcttatag...1061...-tatgcccgtag	gattcccc
D. Ana	ctgccaag	gtagg--tcttcta...1235...--t-gtgt-t--	ggcttatctaacaAAAAATGCTaTTAGagggcgattaatagggcgtgt	-----...918...-ctttctctcag	gctttccc
D. Gri	ttgccaag	gtaag--atctata...1738...--atatttaagg	gcttatctaaACGAAAAATGCTaTTAGagggcgattaatagggcgtgt	-----...1488...-atttggttcag	gcttcagc
D. Moj	ttgccaag	gtgag--tgataat...2846...--atatttggg	gagcttatctaaACGAAAAATGCTaTTAGagGCGATTAA	tagggcgtgtccatcatctt----...1981...-ttgctttgtag	gtttcagc
D. Per	ctgtgaag	gtgagtacaagt--...1979...--t-gtgttt--	ggcttatctaaacGAAAAATGCTaTTAGagggcgattaatagggcgtgt	-----...1504...tctctctcat-ag	gctttccc
D. Pse	ctgtgaag	gtgagtacaagt--...1979...--t-gtgttt--	ggcttatctaaacGAAAAATGCTaTTAGagggcgattaatagggcgtgt	-----...1517...tctctctcat-ag	gctttccc
D. Vir	ttgtgaag	gtgag--ctattta...2943...-----	tttgggcttatctgaactAAAAATGCTaTTAGagggcgattaatagggcgtgt	-----...1819...-cttttctctag	gtttcagc
	** ** ** *		* ***** ** *****		** * * *

id=89233 gene=FBgn0038852 name=CG7056 segment=chr3R.16903118-16905915_-1 type=IN

Figure 265: CS=12



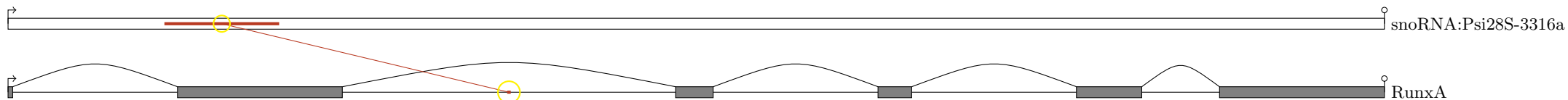
D.Mel	gttttatg	tc-----	GCACCTAAAaGCGT	tttctcgtcggctcgtaa...84...	-ctgactacaagt--	gatctcgg
D.Sim	cttttatg	tc-----	GCACCTAAAaGCGT	tttctcgtcggctcgtaa...84...	-ctgactacaagt--	gatctcgg
D.Sec	cttttatg	tc-----	GCACCTAAAaGCGT	tttctcgtcggctcgtaa...84...	-ctgactacaagt--	gatctcag
D.Ere	gttttatg	tc-----	GCACCTAAAaGCGT	tttctcgtcggctcgtaa...84...	-ctgactacaagt--	gatctccc
D.Gri	attttaca	tcgattgca	GCACCTAAAaGCGT	tttctttaggccaattcaa...98...	---gattaagtttat	gatattga
D.Moj	atttt-ta	at-----	TGCACCTAAAAGCGT	tttcttgtagccaattaaa...82...	-ctgagtacattt--	gaaaatta
D.Per	aagttaac	cc-----	GCACCTAAAaGCGT	tttcttgatagtctctttga...88...	-ctggctacagat--	gatccttg
D.Pse	aagttaac	cc-----	GCACCTAAAaGCGT	tttcttgatagtctctttga...88...	-ctggctacagat--	gatccttg
D.Vir	atttt-tg	gc-----	TGCACCTAAAAGCGT	tttcttgtagccaattcaa...94...	ccagattaaatttaa	g---tagg
D.Yak	gttttatg	tc-----	GCACCTAAAaGCGT	tttctcgtcagcctgtaa...84...	-ctgactacaagt--	gatctcgg
	**		*****	*	*	*

id=90268 gene=FBgn0082972 name=snoRNA:Psi28S-3316a segment=chr2R.17214244_17214375_1 type=EN

D.Mel	-----atgataaa	tacaaccacaaa...288...	ccattcaaaggcttcagtttGCGCg-TTTAG	gtGTGTat
D.Sim	-----atgataaa	tacaaccacaaa...279...	ccattcaaaggcttcagtttGCGCg-TTTAG	gtGTGTat
D.Sec	-----atgataaa	tacaaccacaaa...278...	ccattcaaaggcttcagtttGCGCg-TTTAG	gtGTGTat
D.Ere	-----aagataaa	taaaaccacaaa...281...	ccattcaaaggcctcagtttGCGCg-TTTAG	gtGTGTat
D.Gri	atcaactgaacaataat	aaa-----...307...	cgcaaaaaggcttcactgtGCGCgTTTTAG	gtGTGTat
D.Moj	-----atgctaaa	gaaaactacatt...300...	tgcaaaaaggcttcactgtGCGCgTTTTAG	gtGTGTat
D.Per	gaaacagatacagaaag	aaa-----...300...	ccgttcagtggcttcaggttGCGCg-TTTAG	gtGTGTat
D.Pse	gaaacagatacagaaag	aaa-----...301...	ccgttcagtggcttcaggttGCGCg-TTTAG	gtGTGTat
D.Vir	-----acaataat	aaaagctaaaga...256...	caaaataaaggcttcactgtGCGCgTTTTAG	gtGTGTat
D.Yak	-----aatataaa	taaaaccacaaa...281...	ccattcaaaggcctcagtttGCGCg-TTTAG	gtGTGTat
	* **	*	* ** * * * * * * * * *	*****

id=19160 gene=FBgn0000289 name=cg segment=chr2R.10067995_10068324_1 type=AN VIEW

Figure 267: CS=12.5



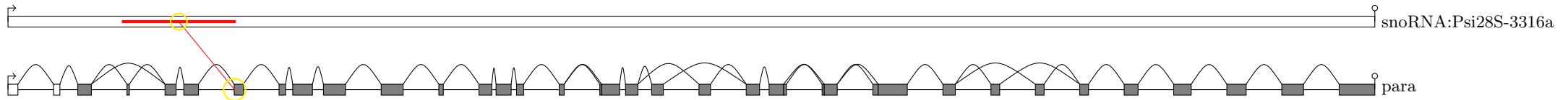
D. Mel	gttttatg	tc-----gcaccTAAAGCGTTTTCTcgtcggctcgtt--aaatgct----.80...-ctgactacaagt--	gatctcgg
D. Sec	cttttatg	tc-----gcaccTAAAGCGTTTTCTcgtcggctcgtt--aaatgct----.80...-ctgactacaagt--	gatctcag
D. Ere	gttttatg	tc-----gcaccTAAAGCGTTTTCTcgtcggcttgtt--aaatgct----.80...-ctgactacaagt--	gatctccc
D. Ana	----ata	accact--agcaccTAAAGCGTTTTCTTGCcagcccgtt--aactgctctg..76...-ttgtgaataagt--	gactccca
D. Gri	attttaca	tcgatttgcagcaccTAAAGCGTTTTCTttaggccaatt--caatgct----.94...-gattaagtttat	gatattga
D. Moj	atttttaa	tt-----gcaccTAAAGCGTTTTCTTGTacgccaatt--aaatgcgctt...75...-ctgagtacattt--	gaaaatta
D. Per	aagttaac	cc-----gcaccTAAAGCGTTTTCTttagatgtctctttgaaatg-----.84...-ctggctacagat--	gatccttg
D. Pse	aagttaac	cc-----gcaccTAAAGCGTTTTCTttagatgtctctttgaaatg-----.84...-ctggctacagat--	gatccttg
D. Vir	atttttgg	ct-----gcaccTAAAGCGTTTTCTttagatgtctctttgaaatg-----.90...ccagattaaatttaa	g--tagg
D. Yak	gttttatg	tc-----gcaccTAAAGCGTTTTCTcgtcagcctggtt--aaatgct----.80...-ctgactacaagt--	gatctcgg
		***** * * * * * * * *	

id=90268 gene=FBgn0082972 name=snoRNA:Psi28S-3316a segment=chr2R.17214244-17214375_1 type=EN

D. Mel	cggcagag	gtgagtcaaaa...4268...ggcggcggctca----aggagcct----GAAATGC-TTTTAattgaatcctgggagacaaa...645...ttgttttccag	ggaaaagc
D. Sec	cggcagag	gtgagtcaaaa...4266...ggcggcggctca----aggagcct----GAAATGC-TTTTAattgaatcctgggagacaaa...647...ttgttttccag	ggaaaagc
D. Ere	cggcagag	gtgagtccacaa...4279...ggcggcggctca----aggagcct----GAAATGC-TTTTAattgaatcctgggagacaaa...634...ttgttttccag	ggaaaagc
D. Ana	tggacgag	gtgagtcttaaa...4317...----acgcctcgttgcaggagctGTAGctGAAATGCTTTTAattgaatcccgaactcgagt...589...gtgttttttag	ggaaaagc
D. Gri	cggcagag	gtgagtgtatct...3981...tgggagtttcga----gtttggtt----GAAATGC-TTTTAattgaatcgtcgaattcg...932...gcgtcattgcag	ggaaaagc
D. Moj	cggccgag	gtgagttgagga...3357...agagggagaaga--tggggagc--TGAGGAAATGC-TTTTAattgaatcgcagctcgtcg...1551...acctcgttccag	gcaagagc
D. Per	tggcagag	gtagtattaag...3553...gccagcatctca----aggagccc----GAAATGC-TTTTAattgaatcccgaacggggt...1360...tgatttttgcag	ggaaaagc
D. Pse	tggcagag	gtagtattaag...3509...ggcagcatctca----aggagccc----GAAATGC-TTTTAattgaatcccgaacggggt...1404...tgatttttgcag	ggaaaagc
D. Vir	tggcaggg	gtaagtttcatg...4105...gtcgagaacagg----agttggct----GAAATGC-TTTTAattgaatcccagcatcgtcg...808...gcctcgttccag	gaaagagc
D. Yak	cggcagag	gtgagtcaaaa...4312...ggcggcggctca----agaagcct----GAAATGC-TTTTAattgaatcctgggagacaaa...601...ttgttttccag	ggaaaagc
	** * *	* ***** *	* ** ** * ** *

id=38881 gene=FBgn0083981 name=RunxA segment=chrX.20469788-20475124_-1 type=IN

Figure 268: CS=12



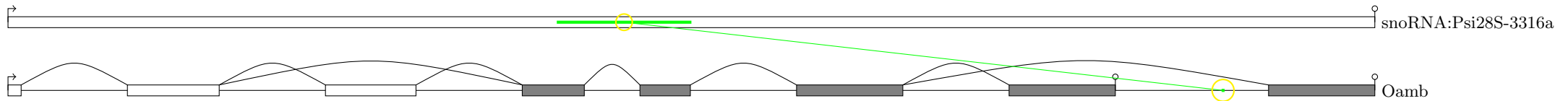
D.Mel	gtttt-----ATG	TcgCACCTAAAAGCG	ttttctcgtcggctcgtaa...85...-ctgactacaagt--	gatctcgg
D.Sim	ctttt-----ATG	TcgCACCTAAAAGCG	ttttctcgtcggctcgtaa...85...-ctgactacaagt--	gatctcgg
D.Ere	gtttt-----ATG	TcgCACCTAAAAGCG	ttttctcgtcggctcgtaa...85...-ctgactacaagt--	gatctccc
D.Ana	ataaccactag----	CACCTAAAAGCG	ttttcttgccagcccgttaa...85...-tttgaataagt--	gactcca
D.Gri	attttacatcgatttg	cagCACCTAAAAGCG	ttttcttgtagccaattca...99...--gattaagtttat	gatatga
D.Moj	attttaattg----	CACCTAAAAGCG	ttttctgtacgccaattaa...83...-ctgagtacattt--	gaaaatta
D.Per	aagttaaccg----	CACCTAAAAGCG	ttttctgatagtctctttg...89...-ctggctacagat--	gatccttg
D.Pse	aagttaaccg----	CACCTAAAAGCG	ttttctgatagtctctttg...89...-ctggctacagat--	gatccttg
D.Vir	attttggctg----	CACCTAAAAGCG	ttttctgtacgccaactca...95...ccagattaaatttaa	g---tagg
D.Yak	gtttt-----ATG	TcgCACCTAAAAGCG	ttttctcgtcagcctgtaa...85...-ctgactacaagt--	gatctcgg
***** * * * * * * * * * * * * * * * *				

id=90268 gene=FBgn0082972 name=snoRNA:Psi28S-3316a segment=chr2R.17214244_17214375_1 type=EN

D.Mel	tccactga	gtaagtagccc...3969...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGATA
D.Sim	tccactga	gtaagtagccg...3869...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGATA
D.Ere	tccactga	gtaagtagccc...3928...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGATA
D.Ana	tccactga	gtaagtactatc...3440...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGat
D.Gri	tccactga	gtaagtattgtt...4195...aatgcatt-cgaaattcaatt	CGTTTTTA	GGTGat
D.Moj	tccactga	gtaagtattccc...4459...tttcatt-cgaaattcaatt	CGTTTTTA	GGTGat
D.Per	tccactga	gtaagtacaccg...4645...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGat
D.Pse	tccactga	gtaagtacaccg...4652...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGat
D.Vir	tccactga	gtaagtactgtc...4012...attgcatt-cgaaattcaatt	CGTTTTTA	GGTGat
D.Yak	tccactga	gtaagtagccc...3979...-ttgcatttcgaaattcaatt	CGTTTTTA	GGTGATA
***** ***** * **** ***** ***** ***** ***** *****				

id=51986 gene=FBgn0260993 name=para segment=chrX.16403738_16407747_-1 type=IN

Figure 269: CS=10



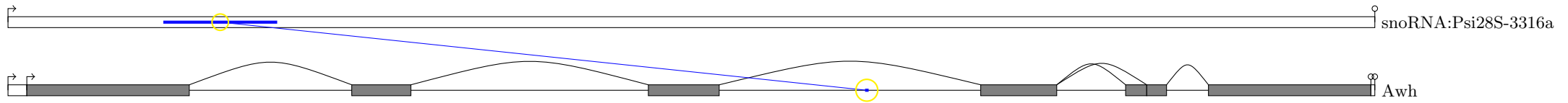
D. Mel	gttttatg	tc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	39...	-ctgactacaagt--	gatctcgg	
D. Sim	cttttatg	tc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	39...	-ctgactacaagt--	gatctcgg	
D. Sec	cttttatg	tc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	39...	-ctgactacaagt--	gatctcag	
D. Ere	gttttatg	tc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	39...	-ctgactacaagt--	gatctccc	
D. Ana	ataaccac	ta-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	39...	-ctgactacaagt--	gatctccc	
D. Gri	attttaca	tcgatttgca	gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	53...	---gattaagttat	gatattga
D. Moj	atttttaa	tt-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	37...	-ctgactacaagt--	gaaatta	
D. Per	aagttaac	cc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	41...	-ctgactacaagt--	gatccttg	
D. Pse	aagttaac	cc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	41...	-ctgactacaagt--	gatccttg	
D. Vir	atttttgt	ct-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	49...	ccagattaat	g---tagg	
D. Yak	gttttatg	tc-----gcaccta	aaaagcgttttctc	gctcggctcgtt	--aaatgctcttga	AAATCGTAGa	TGTGTG	ccagagcgaagctcagttgc...	39...	-ctgactacaagt--	gatctcgg	
		*****	*	*	***	*****	*****	*	*	*	*	

id=90268 gene=FBgn0082972 name=snoRNA:Psi28S-3316a segment=chr2R.17214244-17214375_1 type=EN

D. Mel	-aacaaaac	aaaacgaaaacc...	1043...	cgcgtttatggcgca--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	182...	ctccttgaccag	gttccaag
D. Sim	-aacaaaac	aaagcgaaaacc...	1007...	cgcgtttatggcgca--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	181...	ctccttgaccag	gttccaag
D. Sec	-aacaaaac	aaagcgaaaacc...	973...	cgcgtttatggcgca--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	173...	ctccttgaccag	gttccaag
D. Ere	-aacaaaac	aaaacgaaaacc...	1034...	cgcgtttatggcgca--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	181...	ctccttgaccag	gttccaag
D. Ana	-aacacaac	acaacaagtaac...	776...	cgcgtttatggcgca--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	329...	ccaactcttag	gatccaag
D. Gri	-aaataaat	aaaaaaataca...	1379...	cgcttatgccaagatacatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	677...	gcattttgatag	gctccaag
D. Moj	-aagagcaa	aaatcgatcgcc...	817...	tgtgcttatgccaag--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	194...	cccattcaacag	gctccaag
D. Per	gagaaaaac	aaatcgaaata...	935...	cgcgtttatgggaaa--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	200...	ccgttcgaacag	gctccaag
D. Pse	gagaaaaac	aaatcgaaata...	926...	cgcgtttatgggaaa--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	200...	ccgttcgaacag	gctccaag
D. Vir	-aagagcaa	aaaacgagcgcc...	1065...	cgcgtttatgctaag--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	169...	cccatttgagcag	gctccaag
D. Yak	-aacaaaac	aaaacgaaaacc...	1083...	cgcgtttatggcgca--acatt	TGCATAa	TTACGc	GTTT	aatttgctaaagtgcaggca...	182...	ctccttgaccag	gttccaag
	*	*	*	*	*****	*****	*****	*	*	*	*****

id=21815 gene=FBgn0024944 name=Oamb segment=chr3R.16516830-16518135_-1 type=IN

Figure 270: CS=11



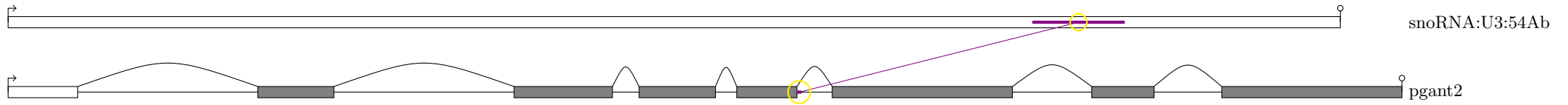
D.Mel	gttttatg	tc-----gcacc	TAAAAGCGTTTT	ctcgtcggctcgttaa	atgc...81...-ctgactacaagt--	gatctcgg
D.Sim	cttttatg	tc-----gcac	CTAAAAGCGTTTT	ctcgtcggctcgttaa	atgc...81...-ctgactacaagt--	gatctcgg
D.Sec	cttttatg	tc-----gcac	CTAAAAGCGTTTT	ctcgtcggctcgttaa	atgc...81...-ctgactacaagt--	gatctcag
D.Ere	gttttatg	tc-----gcac	CTAAAAGCGTTTT	ctcgtcggctcgttaa	atgc...81...-ctgactacaagt--	gatctccc
D.Ana	ataaccac	ta-----gcac	CTAAAAGCGTTTT	cttgccagcccgtaa	atgc...81...-ttgtgaataagt--	gactccca
D.Gri	attttaca	tcgatttgacagcac	CTAAAAGCGTTTT	cttgtaggccaattca	atgc...95...--gattaagtttat	gatattga
D.Moj	atttttaa	tt-----gcac	CTAAAAGCGTTTT	cttgtagcgaattaa	atgc...79...-ctgagtacattt--	gaaaatta
D.Per	aagttaac	cc-----gcac	CTAAAAGCGTTTT	cttgatagtcctttg	aat...85...-ctggctacagat--	gatccttg
D.Pse	aagttaac	cc-----gcac	CTAAAAGCGTTTT	cttgatagtcctttg	aat...85...-ctggctacagat--	gatccttg
D.Vir	atttttgg	ct-----gcac	CTAAAAGCGTTTT	cttgtagcgaactca	atgc...91...ccagataaatttaa	g---tagg
D.Yak	gttttatg	tc-----gcac	CTAAAAGCGTTTT	ctcgtcagcctgtaa	atgc...81...-ctgactacaagt--	gatctcgg
			***** * * * *			

id=90268 gene=FBgn0082972 name=snoRNA:Psi28S-3316a segment=chr2R.17214244_17214375_1 type=EN

D.Mel	gagcgacg	gttagtattcta...409...tttcaatttggccgactgtc	AAAATGCTTTTA	-----caccaggcctagagtcactg-	...320...ttccattccag	agggctgt
D.Sim	gagcgacg	gttagtgtttta...430...tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcccagagtcactgg...	...299...ttccattccag	agggctgt
D.Sec	gagcgacg	gttagtgtttta...430...tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcccagagtcactgg...	...295...ttccattccag	agggctgt
D.Ere	gagcgacg	gttagtgtttta...418...tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcccagagtcactgt...	...298...ttccattccag	agggctgt
D.Ana	gagcgacg	gtaagttagttc...428...tttcaatttggctgactgtc	AAAATGCTTTTAG	----agccaagagaccgaagttg----	...329...ttccattccag	atggctgt
D.Gri	aagtgacg	gtaagcgggaacc...816...tttcaatttggctgactgtc	AAAATGCTTTTAG	----acg----cggcttaggcactgtc-	...101...gtatatctgtag	atggctgt
D.Moj	aagtgacg	gtaagcgggaacc...415...tttcaatttggctgactgtc	AAAATGCTTTTAG	----acac----aggcttaggcactgtac-	...91...ttctctgttag	atggctgt
D.Per	aagtgacg	gtaagcgaattg...473...tttcaatttggctgactgtc	AAAATGCTTTTAG	----accc----taagtcagtggaat--	...88...ttttctgttag	aaggctgt
D.Pse	aagtgacg	gtaagcgaattg...467...tttcaatttggctgactgtc	AAAATGCTTTTAG	----accc----taagtcagtggaat--	...87...ttttctgttag	aaggctgt
D.Vir	aagtgacg	gtaagcgaattg...760...tttcaatttggctgactgtc	AAAATGCTTTTAG	acagacgcccggcggcttag-----	...72...cgattccatag	atggctgt
D.Yak	gagcgacg	gttagtatttta...430...tttcaatttggccgactgtc	AAAATGCTTTTAG	-----accaggcctggagtcactgg...	...308...ttccattccag	agggctgt
	** **	** **	*****	*****	** **	*****

id=14736 gene=FBgn0013751 name=Awh segment=chr3L.3859385_3860189_1 type=IN

Figure 271: CS=12.65



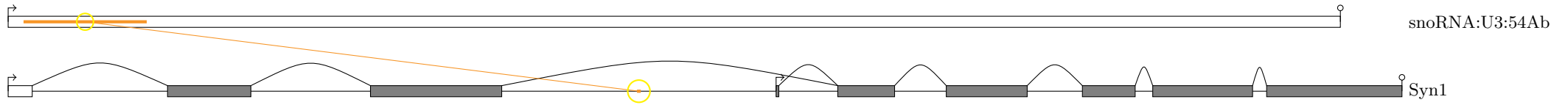
D. Mel	agtcagtc	ttcacatacttt...93...--cgcatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaaacggatagagcgaattctgagtgg	gccccctt
D. Sim	agtcagtc	ttcacatacttt...93...--cgcatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaaacggatagagcgaattctgagtgg	gccccctt
D. Sec	agtcagtc	ttcacatacttt...93...--cgcatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaaacggatagagcgaattctgagtgg	gccccctt
D. Gri	agtcagtc	ttcacttacttt...96...--cggtcatccgtgttggggcGTGGC	GCTTCGATGATCG	ctcggttaa-cacgaatagaacgaattctgagtgg	gtacaaaa
D. Moj	agtcagtc	ttcacttacttt...99...gcacgtatgat---gggtgtagc-----	GCTTCGATGATCG	ctcggtca-cacgaataaaaacgaattctgagtgg	tctcaaac
D. Per	agtcagtc	ttcacttacttt...105...--cgtgtcgttcggggcgcaga-----	GCTTCGATGATCG	ctcggtaa-aacggatagaacgaattctgagtgg	gtaccttt
D. Pse	agtcagtc	ttcacttacttt...105...--cgtgtcgttcggggcgcaga-----	GCTTCGATGATCG	ctcggtaa-aacggatagaacgaattctgagtgg	gtaccctt
D. Vir	agtcagtc	ttcacttacttt...95...--ttatcactcgttttggggcGTGGC	GCTTCGATGATCG	ctcggtaa-cacgaatagaacgaattctgagtgg	gtaccatc
D. Yak	agtcagtc	ttcacatacttt...93...--cgcaactgttcgggatgcagg-----	GCTTCGATGATCG	ctcggtaaacacggatagagcgaattctgagtgg	gctctctt
	*****	***** *****	* *	***** *****	*** ** * ***** *****

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R_13033159_13033331_1 type=EN

D. Mel	tGATCATCGtAAGT	-----	ttcagctgaggat
D. Sim	tGATCATCGtAAGT	-----	ttcagctgaggat
D. Sec	tGATCATCGtAAGT	-----	ttcagctgaggat
D. Gri	tGATCATCGtAAGTatTTGT	acacagctttttttattttctttcgtttacagtttcat:::-----	tttagctgaggat
D. Moj	tGATCATCGtAAGT	-----attcatattatcttttaa:::-----	tccagccgaggac
D. Per	tGATCATCGtAAGT	-----	ctcagccgaagac
D. Pse	tGATCATCGtAAGT	-----	ctcagccgaagac
D. Vir	tGATCATCGtAAGTatTTGT	-----ttggtttttcacatttcttgagaatttttaa:::atataccttgctatcttattttcccgctccagccgaggac	
D. Yak	tGATaATCGtAAGT	-----	ttcagctgaggat
	**** *****		*** ** *

id=3892 gene=FBgn0031530 name=pgant2 segment=chr2L_3407148_3407245_-1 type=IN

Figure 272: CS=10.8



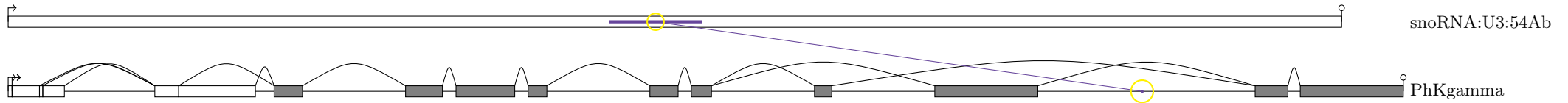
D. Mel	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gccccctt
D. Sim	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gccccctt
D. Sec	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gccccctt
D. Ere	agTCAGTc	TTCACatACTT	tcacactagatgaaagctga...129...attctgagtgg	gccccctt
D. Ana	agTCAGTc	TTCACatACTT	tcacattagatgaaagctaa...141...attctgagtgg	gctccttt
D. Moj	agTCAGTc	TTCACttACTT	tcacacaaaatgaaagcaca...135...attctgagtgg	tctcaaac
D. Per	agTCAGTc	TTCACttACTT	tcgcacaaaatgaaagccaa...141...attctgagtgg	gtaccctt
D. Pse	agTCAGTc	TTCACttACTT	tcgcacaaaatgaaagccaa...141...attctgagtgg	gtaccctt
D. Vir	agTCAGTc	TTCACttACTT	tcacactttctgaaagcaag...136...attctgagtgg	gtaccatc
D. Wil	agTCAGTc	TTCACttACTT	tcacattgaaagaaagccac...113...attctgagtgg	gtatctac
D. Yak	agTCAGTc	TTCACatACTT	tcacactagctgaaagccaa...130...attctgagtgg	gctctcct
	*****	**** *	*****	*****

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R_13033159_13033311 type=EN

D. Mel	tctggaag	gtgggtacacaa...4342...aacgctcggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaacg...568...cctaatgaattt	atgccgca
D. Sim	tctggaag	gtgagtacacaa...4382...aacgctcggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaacg...528...tctaatgaattt	atgccgca
D. Sec	tctggaag	gtgagtacacaa...4382...aacgctcggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaacg...528...tctaatgaattt	atgccgca
D. Ere	tctggaag	gtgggtacagga...4442...aacgctcggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaatg...468...tctaatgaattt	atgccgca
D. Ana	tttgggaag	gtgggtactcgt...4259...aacgctcagccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaacg...651...tctaatgaattt	atgccgca
D. Moj	cctggaag	gtacgtgactc...3843...cgctgccaacagttggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaacg...1067...tctaatgaattt	atgccgca
D. Per	tctggaag	gtaggtggagga...4514...gggggctggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgacga...396...tctaatgaattt	atgctgca
D. Pse	tctggaag	gtaggtggagga...4514...gggggctggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgacga...396...tctaatgaattt	atgctgca
D. Vir	tctggaag	gtacgtacccaa...4399...cgctgccaacagttggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaacg...511...tctaatgaattt	atgccgca
D. Wil	tctggaag	gtatgtataccc...4045...tccagccagccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaaca...865...tctaatgaattt	atgccgca
D. Yak	tctggaag	gtgggtacacaa...4384...aacgctcggccgatggcatt	AAGTGTGAAaATTGA	atttccaatcactcgaatg...526...tctaatgaattt	atgccgca
	*****	** **	*	* *****	*****

id=60792 gene=FBgn0037130 name=Syn1 segment=chr3L_21741530_21753130_-1 type=IN

Figure 273: CS=13.75



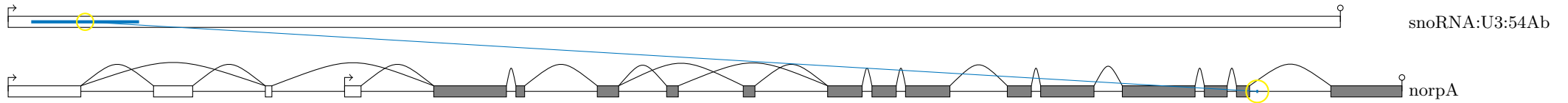
D.Mel	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	tctttgtggtgcctcgcac-...50...attctgagtgg	gccccctt	
D.Sim	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	cctttttggtgcctcgcac-...50...attctgagtgg	gccccctt	
D.Sec	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	ccttgttgggtgcctcgcac-...50...attctgagtgg	gccccctt	
D.Ere	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	ccttt-tggtgcttcgcac-...49...attctgagtgg	gccccctt	
D.Ana	agtcagtc	ttcacatacttt...38...gtgaatcgttctattcggca	GCGTGAGGA	TTTG	ccagcgccctttgtggtgt	-----...69...attctgagtgg	gctccttt	
D.Gri	agtcagtc	ttcacttacttt...38...atgaatcgttttattcggca	GCGTGAGGTTTTG	ccGTGATG	ccctttgcggtatgacttcg	---...58...attctgagtgg	gtacaaaa	
D.Moj	agtcagtc	ttcacttacttt...38...atgaatcgttttattcggca	GCGTGAGGA	TTTG	ccgttatgccctttacgttgt	-----...63...attctgagtgg	tctcaaac	
D.Per	agtcagtc	ttcacttacttt...38...ttaaactcgtcctattcggca	GCGTGAGGTTTTG	cccagcgccctttctggtgc	-----...69...attctgagtgg	gtaccctt	gtaccctt	
D.Pse	agtcagtc	ttcacttacttt...38...ttaaactcgtcctattcggca	GCGTGAGGTTTTG	cccagcgccctttctggtgc	-----...69...attctgagtgg	gtaccctt	gtaccctt	
D.Vir	agtcagtc	ttcacttacttt...38...atgaatcgttttattcggca	GCGTGAGGA	TTTG	ccGTGATG	ccctttgcgatgtgattta	---...57...attctgagtgg	gtaccatc
D.Yak	agtcagtc	ttcacatacttt...38...ttgaatcgttctattcggca	GCGTGAGGA	TTTG	ccCAGTGT	cctttgtggtgcttcgca-ct...50...attctgagtgg	gctccttt	
	*****	*****	*****	*****	*****	*****	*****	

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R_13033159_1303331_1 type=EN

D.Mel	cagtgagc	gcaggttttcca...1303...gtttgtgtcatgt-cctct	ATATTGtCAGAgTCTCaACGC	ccttataagatgtgtgtcta...774...tctgatgttag	ctgcgcaa	
D.Sim	cagtgagc	gcaggttttcca...1300...gtttgtgtcatgt-tctct	ATATTGtCAGAgTCTCaACGC	ccttataagatgtgtgtcta...749...tctgatgttag	ctgcgcaa	
D.Sec	cagtgagc	gcaggttttcca...1311...gtttgtgtcatgt-tctct	ATATTGtCAGAgTCTCaACGC	ccttataagatgtgtgtcta...747...tctgatgttag	ctgcgcaa	
D.Ere	cagtgagc	gcaggttttcca...1377...gtttgtgtcatgt-tctct	ATATTGtCAGAgTCTCaACGC	ccttataagatgtgtgtcta...763...tctcaggttag	ctgcgcaa	
D.Ana	ccgtgcag	gcaggttttcc...976...-----gtcatgtgtcctatattgt	CAGAgTCTCaACGC	ccttataagatgtgtgtcta...623...aacaccatttag	ctgcggaa	
D.Gri	cagcaaca	gcagcagcagca...1205...-tttgtgatcatgt-tctcta	TATTGTCAGAGTCTCaACGC	ccttataagatgtgtgtcta...844...ttatgttttag	ctgcggaa	
D.Moj	ccgtgcag	gcaggttttcc...809...-----tgcatgt-tctctatattgt	CAGAgTCTCaACGC	ccttataagatgtgtgtcta...862...tcgcatatttag	ctgcggaa	
D.Per	aagtgcag	gcaggttttcc...1129...-----tgcatgt-tctcaatattgt	CAGAGTCTCaACGC	ccttataaccatgtgtgtcta...1665...tcccacatag	cttcgcaa	
D.Pse	aagtgcag	gcaggttttcc...1105...-----tgcatgt-tctcaatattgt	CAGAGTCTCaACGC	ccttataaccatgtgtgtcta...1480...tcccacatag	cttcgcaa	
D.Vir	cagtgagc	gcaggttttcc...971...-tttgtgtcatgt-tctcta	TATTGTCAGAgTCTCaACGC	ccttataagatgtgtgtcta...878...gtcatatttag	ctgcggaa	
D.Yak	cagtgagc	gcaggttttcca...1367...gtttgtgtcatgt-tctct	ATATTGtCAGAgTCTCaACGC	ccttataagatgtgtgtcta...794...tctcaggttag	ctgcgcaa	
	*	****	*	*****	*****	* **

id=18873 gene=FBgn0011754 name=PhKgamma segment=chrX_11595161_11597322_1 type=IN

Figure 274: CS=11



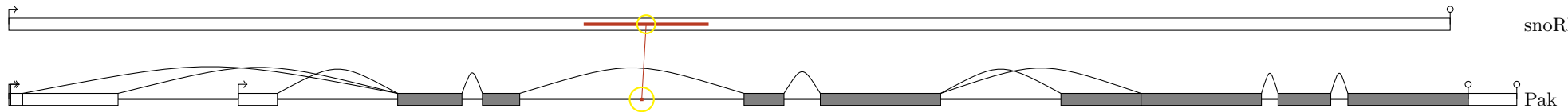
D. Mel	agt	CAGTc	TTCACATACT	ttcacactagctgaaagcca...131...attctgagtgg	gccccctt
D. Sec	agt	CAGTc	TTCACATACT	ttcacactagctgaaagcca...131...attctgagtgg	gccccctt
D. Ere	agt	CAGTc	TTCACATACT	ttcacactagatgaaagctg...130...attctgagtgg	gccccctt
D. Ana	agt	CAGTc	TTCACATACT	ttcacattagatgaaagcta...142...attctgagtgg	gctccttt
D. Gri	agt	CAGTc	TTCActTACT	ttcacactatctgaaagcac...138...attctgagtgg	gtacaaaa
D. Moj	agt	CAGTc	TTCActTACT	ttcacacaaatgaaagcac...136...attctgagtgg	tctcaaac
D. Per	agt	CAGTc	TTCActTACT	ttcgcacaaattgaaagcca...142...attctgagtgg	gtaccctt
D. Pse	ag	GTCAGTc	TTCActTACT	ttcgcacaaatgaaagcca...142...attctgagtgg	gtaccctt
D. Vir	agt	CAGTc	TTCActTACT	ttcacacttctgaaagcaa...137...attctgagtgg	gtaccatc
D. Wil	agt	CAGTc	TTCActTACT	ttcacattgaaagaaagcca...114...attctgagtgg	gtatctac
D. Yak	agt	CAGTc	TTCACATACT	ttcacactagctgaaagcca...131...attctgagtgg	gctctctt
	*****		*****	*****	*****

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R_13033159_1303331.1 type=EN

D. Mel	tgcaaaag	gtactgaacgaaacacggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1176...ttcaaaaa---caag	cttatgga
D. Sec	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1179...ttcaaaaa---caag	cttatgga
D. Ere	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1160...ttcaaaaa---caag	cttatgga
D. Ana	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1417...---aaaaatatcaag	cttatgga
D. Gri	tgcaaaag	gtactaaatgaaatacggccgcgaaaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccaaaacaa-...1174...---cgacattaacag	ctaatgga
D. Moj	tgcaaaag	gtactaaatgaaacacggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagaccacaaaaaac-...1514...---tcacattaacag	cttatgga
D. Per	tgcaaaag	gtactgaacgaaacgcccctgaaaccgacactataacc	AGTATTGAGACTG	-tacttttagacaactataact-...1686...---gctgctttatag	ctaatgga
D. Pse	tgcaaaag	gtactgaacgaaacgcccctgaaaccgacactataacc	AGTATTGAGACTGGT	-acttttagacaactataacta...1689...---gctgctttatag	ctaatgga
D. Vir	tgcaaaag	gtactaaatgaaacacggccgcgaaaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaaataata-...1089...---ccacattaacag	cttatgga
D. Wil	tgcaaaag	gtactgaatgaaacacggccgcgaaaccgacactataacc	AGTATTGAGACTG	-tacttttagacaacaataata-...1198...---acaattaacag	cttatgga
D. Yak	tgcaaaag	gtactgaacgaaactcggccgcagaccgacactataacc	AGTATTGAGACTG	-tacttttagacaaccacacct-...1139...ttcaaaaa---caag	cttatgga
	*****	*****	*****	*****	*****

id=1266 gene=FBgn0004625 name=norpA segment=chrX_4254739_4255998.1 type=IN

Figure 275: CS=11.88



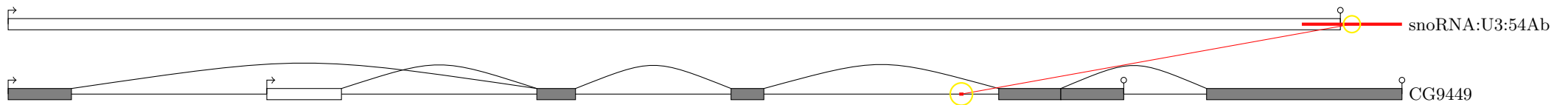
D.Mel	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGgatttcccagtgctctttg	----	64...attctgagtgg	gccccctt
D.Sim	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGgatttcccagtgctctttg	----	64...attctgagtgg	gccccctt
D.Sec	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGgatttcccagtgctctttg	----	64...attctgagtgg	gccccctt
D.Ere	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGgatttcccagtgctctttg	----	63...attctgagtgg	gccccctt
D.Ana	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGgatttcccagtgctctttg	----	74...attctgagtgg	gctccttt
D.Gri	agtcagtc	ttcacttacttt...26...cgcggttgatgagttgaatcg	TTTTATTcGGCAGCgTGAGGtttgcgtgatgccctttgcg	--	69...attctgagtgg	gtacaaaa
D.Vir	agtcagtc	ttcacttacttt...26...cgcggttgatgagttgaatcg	TTTTATTcGGCAGCgTGAGGtttgcgtgatgccctttgc	---	69...attctgagtgg	gtaccatc
D.Wil	agtcagtc	ttcacttacttt...29...---gttgatgagttggaatcgttc	TATTcGGCAGCgTGAGGtATttcgcagtcgccctttggg	...	43...attctgagtgg	gtatctac
D.Yak	agtcagtc	ttcacatacttt...29...---gttgatgagttgaatcgttc	TATTcGGCAGCgTGAGgatttcccagtgctctttg	----	64...attctgagtgg	gctccttt
	*****	*****	*****	**	**	*****

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R.13033159_1303331.1 type=EN

D.Mel	agtttacc	gtgagttttcta...540...-----tatatcaatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---	393...tgcctttttcag	ggcatgcc
D.Sim	agtttacc	gtgagtttctcta...551...-----tatatcaatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---	387...tgcctttttcag	ggcatgcc
D.Sec	agtttacc	gtgagtttctcta...551...-----tatatcaatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttctcga---	387...tgcctttttcag	ggcatgcc
D.Ere	agtttacc	gtgagtttctata...611...-----tatatcatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaacttcacga---	394...tgcctttttcag	ggcatgcc
D.Ana	aatttacg	gtaagtcacggtg...363...-----t-tatctattatccattatta	TTTCAaGCTGCCAATG	aaagtaagt-aaactccacgt---	400...gccatttttcag	ggcatgcc
D.Gri	agtttacg	gtgagttcatgt...593...-----atthttgattattcattatt	ATTTCaGCTGCCAATGAAA	gtaagtaaacacctcgttt...	417...tgaattttacag	ggatgcc
D.Vir	agtttacg	gtaagttcgtgt...751...-----ttttgtattatcgattatta	TTTCAaGCTGCCAATGAAA	gtaagt-aaacaccaagtcct...	399...tgcacattacag	ggatgcc
D.Wil	aatttacg	gtgagttttaat...439...gtattatgattttgtattat	GTATTTCaGCTGCCAATG	aaagtaagt-aaatgccgaaa---	377...taattattttag	ggatgcc
D.Yak	agtttacc	gtgagtttctata...514...-----tatattgatt-tctattatta-	TTCAaGCTGCCAATG	aaagtaagt-aaaattcacga---	380...tgcctttttcag	ggcatgcc
	* ****	** ***	* * ** *	** *****	** *	** ** *

id=116213 gene=FBgn0014001 name=Pak segment=chr3R.2181143_2182154.1 type=IN

Figure 276: CS=10.8



```

D.Mel agtcagtc ttcacatacttt...122...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Sim agtcagtc ttcacatacttt...122...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Sec agtcagtc ttcacatacttt...122...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Ere agtcagtc ttcacatacttt...121...--atcgctcggtagaaacggatAGAGcGAATTctGAGTGGT Gccccctt
D.Ana agtcagtc ttcacatacttt...132...tgatcgctcggta-acacgaaTAGAGcGAATTctGAGTGGT Gctccttt
D.Gri agtcagtc ttcacttacttt...128...tgatcgctcggta-acacgaaTAGAAcGAATTctGAGTGGT Gtacaana
D.Per agtcagtc ttcacttacttt...133...-gatcgctcggta-aaacggatAGAAcGAATTctGAGTGGT Gtaccctt
D.Pse agtcagtc ttcacttacttt...133...-gatcgctcggta-aaacggatAGAAcGAATTctGAGTGGT Gtaccctt
D.Vir agtcagtc ttcacttacttt...133...-----ctcggtta-acacgaatagaacGAATTctGAGTGGT Gtaccatc
D.Yak agtcagtc ttcacatacttt...122...--atcgctcggtaaacacggatAGAGcGAATTctGAGTGGT Gctctctt
***** ***** ***** ** *

```

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R_13033159_1303331.1 type=EN

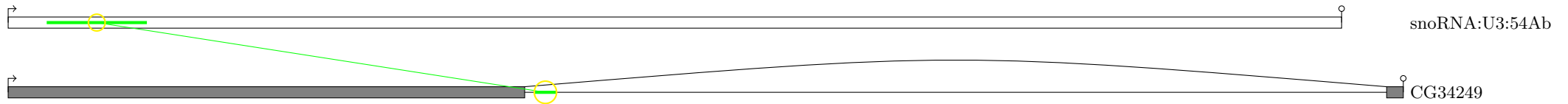
```

D.Mel gtcccgat gtgagtaagcag...538...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--ctgctcttctcgttctgt----tt...59...tcccggcagacag tcggtcca
D.Sim gtcccgat gtgagtaagcag...527...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--cttctcttctcgttctgt----tt...66...tcccggcagacag tcggtcca
D.Sec gtcccgat gtgagtaagcag...440...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--cttctcttctcgttctgt----tt...66...tcccggcagacag tcggtcca
D.Ere gtcccgat gtgagtaagcag...341...aagctcaagcgcgcttggtCATCACTCAATTC TTCT-----cttctcgttctgtatctgtt...64...tccatccggcag tcggtcta
D.Ana gtcccgat gtgagtaagcag...231...aagctcaagcgcgcccgggtCATCACTCAATTC TTCTG--ctcttttgcgcttc--tact...43...ttacctcatag tcggtcta
D.Gri gtcccgat gtgagtaacca...83...gagctcaagcgcgcttggtCATCACTCAATTC TTTTG-----ctctctgctcgtctgctc...42...ccacatgaacag ttggtgca
D.Per gtcccgat gtgagtaagcag...107...aagctcaagcgcgcttggtCATCACTCAATTC TTCTtctccttctttcgttctcgt-----...35...cttccatgcag ctggtgca
D.Pse gtcccgat gtgagtaagcag...113...aagctcaagcgcgcttggtCATCACTCAATTC TTCTtctccttctttcgttctcgt-----...41...cttccatgcag ctggtgca
D.Vir gtcccgat gtgagtaacca...107...aagctcaagcgcgcttggtCATCACTCAATTC --ccttaacgctcttctcgttc-----...29...ttacatctcag ttggtgca
D.Yak gtcccgat gtgagtaagcag...375...aagctcaagcgcgcttggtCATCACTCAATTC TTCT--cttctcttctggttctgt----tt...70...tccccggcag tcggtcca
***** ***** * ***** * ***** * * ***** * * ***** * * ***** * * ***** * * ***** * * ***** * *

```

id=21061 gene=FBgn0036875 name=CG9449 segment=chr3L_19486759_19487437_-1 type=IN

Figure 277: CS=10.8



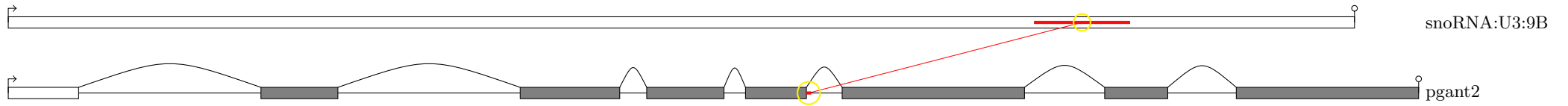
D. Mel	agtcaGTC	TTCACaTACTTT	cacactagctgaaagccaag...129...attctgagtgg	gccccctt
D. Sim	agtcaGTC	TTCACaTACTTT	cacactagctgaaagccaag...129...attctgagtgg	gccccctt
D. Sec	agtcaGTC	TTCACaTACTTT	cacactagctgaaagccaag...129...attctgagtgg	gccccctt
D. Ere	agtcaGTC	TTCACaTACTTT	cacactagatgaaagctgag...128...attctgagtgg	gccccctt
D. Ana	agtcaGTC	TTCACaTACTTT	cacattagatgaaagctaag...140...attctgagtgg	gctccttt
D. Gri	agtcaGTC	TTCACTTACTTT	cacactatctgaaagcactt...136...attctgagtgg	gtacaaaa
D. Vir	agtcaGTC	TTCACTTACTTT	cacactttctgaaagcaagt...135...attctgagtgg	gtaccatc
D. Wil	agtcaGTC	TTCACTTACTTT	cacattgaaagaaagccaca...112...attctgagtgg	gtatctac
D. Yak	agtcaGTC	TTCACaTACTTT	cacactagctgaaagccaag...129...attctgagtgg	gctctctt
	*****	*****	*****	*****

id=81768 gene=FBgn0065047 name=snoRNA:U3:54Ab segment=chr2R.13033159.1303331.1 type=EN

D. Mel	atctcAAG	GTGaGTGAAGGC	caagggccacatttgccac...537...caaccatt--ccag	cctggcct
D. Sim	atctcAAG	GTGaGTGAAGGC	caagggccacatttgccac...447...cagccatt--ccag	cctggcct
D. Sec	atctcAAG	GTGaGTGAAGGC	caagggccacatttgccac...470...caggcatt--ccag	cctggcct
D. Ere	atctcAAG	GTGaGTGAAGGC	caagggccacatttgccac...556...cagcgatt--cctg	cctgcctt
D. Ana	atctcAAG	GTGaGTGAAGGC	caagggccacatttgcccc...375...tcgccatt--ccgg	ccagcctt
D. Gri	atttcAAG	GTGAGTGAAGGC	caagggccacattttccag...369...--atcatttgccag	aatggaaa
D. Vir	atttcAAG	GTGAGTGAAGGC	caagggccacatttgccag...316...--ataatttgccag	aatggcca
D. Wil	atttcAAG	GTGAGTGAAGGC	caagggccacatttgccctg...301...--acttctataaat	tctttttt
D. Yak	atctcAAG	GTGaGTGAAGGC	caagggccacatttgccac...596...cagccatt--ccta	tctgcctt
	** *****	*****	**	*

id=56712 gene=FBgn0085278 name=CG34249 segment=chr3L.16354099.16354679.-1 type=IN

Figure 278: CS=12.42



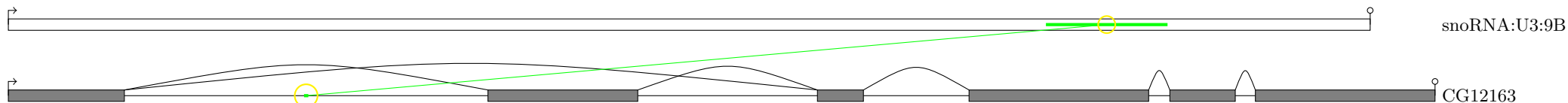
D.Mel	ttcacata	ctttcacactag...88...--catccttagcggggagcggg-----	GCTTCGATGATCG	ctcggttgaacggatagagcgaattctgagtgg	gctcccat
D.Sim	ttcacata	ctttcacactag...85...--cgatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaacggatagagcgaattctgagtgg	gccccctt
D.Sec	ttcacata	ctttcacactag...85...--cgatcgttcgggacgcagg-----	GCTTCGATGATCG	ctcggtagaacggatagagcgaattctgagtgg	gccccctt
D.Gri	ttcactta	ctttcacactat...88...--cgttatccgtgtgtgtgggcGTGGc	GCTTCGATGATCG	ctcggta-acacgaatagaacgaattctgagtgg	gtacaaaa
D.Moj	ttcactta	ctttcacacaaa...91...gcacgtatgat--gggtgtagc-----	GCTTCGATGATCG	ctcggtc-acacgaataaacgaattctgagtgg	tctcaaat
D.Per	ttcactta	ctttgcacaaa...97...--cgtgtcgttcggggcgcaga-----	GCTTCGATGATCG	ctcggta-aaacggatagaacgaattctgagtgg	gtaccttt
D.Pse	ttcactta	ctttgcacaaa...97...--cgtgtcgttcggggcgcaga-----	GCTTCGATGATCG	ctcggta-aaacggatagaacgaattctgagtgg	gtaacctt
D.Vir	ttcactta	ctttcacacttt...87...--ttatcactcgttttgtgggcGTGGc	GCTTCGATGATCG	ctcggta-acacgaatagaacgaattctgagtgg	gtaccatc
D.Yak	ttcacata	ctttcacactag...85...--cgactgttcgggatgcagg-----	GCTTCGATGATCG	ctcggtaaccacggatagagcgaattctgagtgg	gctctctt
	**** *	***** **	* *	*****	*** ** * *****

id=36133 gene=FBgn0065046 name=snoRNA:U3:9B segment=chrX_10242203_10242370_1 type=EN

D.Mel	tGATCATCGtAAGT	-----	ttcagctgaggat
D.Sim	tGATCATCGtAAGT	-----	ttcagctgaggat
D.Sec	tGATCATCGtAAGT	-----	ttcagctgaggat
D.Gri	tGATCATCGtAAGTatTTGT	acacagctttttttatatttctttcgtttacgagtttcat	tttagctgaggat
D.Moj	tGATCATCGtAAGT	-----attcatattatcttttaa	tccagccgaggac
D.Per	tGATCATCGtAAGT	-----	ctcagccgaagac
D.Pse	tGATCATCGtAAGT	-----	ctcagccgaagac
D.Vir	tGATCATCGtAAGTatTTGT	ttggtttttcacatttcttgagaatttttaa	atatcccttgctatttttcccgccagccgaggac
D.Yak	tGATaATCGtAAGT	-----	ttcagctgaggat
	**** *****		*** ** **

id=3892 gene=FBgn0031530 name=pgant2 segment=chr2L_3407148_3407245_-1 type=IN

Figure 279: CS=12.42



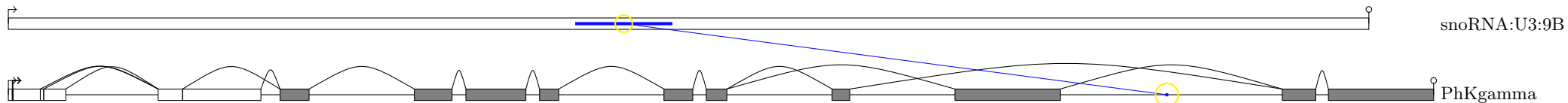
D.Mel	ttcacata	ctttcacactag...85...-----ctgcatccttagcggggagc	GGGGCTT	GATGA	tcGCTC	ggtttgaacggatagagcgaattctgagtgg	gctcccat		
D.Sim	ttcacata	ctttcacactag...82...-----cctcgcatcggt--cgggacgc	AGGGCTT	GATGA	tcGCTC	ggtagaacggatagagcgaattctgagtgg	gccccctt		
D.Sec	ttcacata	ctttcacactag...82...-----cctcgcatcggt--cgggacgc	AGGGCTT	GATGA	tcGCTC	ggtagaacggatagagcgaattctgagtgg	gccccctt		
D.Ana	ttcacata	ctttcacattag...95...-----tccgcatcctc--cgggtcgtc	GGGCTT	GATGA	tcGCTCGGTAA	-cacgaatagagcgaattctgagtgg	gctccttt		
D.Gri	ttcactta	ctttcacactat...89...---ggttatccgtgtgtg--ggcg---	TGGCGCTT	GATGA	tcGCTCGGTAA	-cacgaatagaacgaattctgagtgg	gtacaaaa		
D.Moj	ttcactta	ctttcacacaaa...91...-----gcacgtatgatg--ggtgtagc---	GCTT	GATGA	tcGCTCGGT	-cacacgaataaacgaattctgagtgg	tctcaaat		
D.Per	ttcactta	ctttcgacacaaa...87...cttcggtgtccgtgtcgtt--c	GGGGC	gCAGAGCTT	GATGA	tcGCTCGGTAA	-aacggatagaacgaattctgagtgg	gtaccttt	
D.Pse	ttcactta	ctttcgacacaaa...87...cttcggtgtccgtgtcgtt--c	GGGGC	gCAGAGCTT	GATGA	tcGCTCGGTAA	-aacggatagaacgaattctgagtgg	gtaaccct	
D.Vir	ttcactta	ctttcacacttt...92...-----actcgtttgtg--ggcgtggc---	GCTT	GATGA	tcGCTCGGTAA	-acacgaatagaacgaattctgagtgg	gtaccatc		
D.Yak	ttcacata	ctttcacactag...82...-----cttcgactgtt--cgggatgc	AGGGCTT	GATGA	tcGCTC	ggtaaccacggatagagcgaattctgagtgg	gctctctt		
	**** *	**** *		*	*	*	*****	*** ** *	*****

id=36133 gene=FBgn0065046 name=snoRNA:U3:9B segment=chrX_10242203_10242370_1 type=EN

D.Mel	atgcggag	gtgagtgtgcgt...4190...-----attgcagttgcaattatgcg	GAGTTCATTAGGCTTT	-----aggcccgctggccgagcag--...719...-----ccgtacaaatag	agcacgga-			
D.Sim	atgcggag	gtgagtgtgcgt...4212...-----attgcagttgcaattatgcg	GAGTTCATTAGGCTTT	-----aggcccgctggccgagcag--...697...-----ccgtacacatag	agcacgga-			
D.Sec	atgcggag	gtgagtgtgcgt...4212...-----attgcagttgcaattatgcg	GAGTTCATTAGGCTTT	-----aggcccgctggccgagcag--...697...-----ccgtacacatag	agcacgga-			
D.Ana	gtgcttgt	ttgtgtttgtgt...2891...tgaccgcaatagcag-tgcaa	TTAT	tcCGAGTTCATTAGGCTTT	-----taggtccggggcatttcca--...2012...-----ccgaatacacag	agtgcggt-		
D.Gri	aggaggag	gtgagtttgtta...3619...gagttgcaa-tgttattgcaa	TTAT	gtCGAGTTCATTAGGC	caGTCA	-----agtgagaggtggcgacgcg--...1280...-----caacacacacacag	aaaaaca-	
D.Moj	aacaggag	gtgagttgcggt...3929...---cgcaa-tgtaattgcaattat	GCTGAGTTCATTAGGC	-----cggccaaaagca--aaggcggg...980...-----ccacacacacag	a-cacagac			
D.Per	atgatcag	gtgagtgtgtgt...4262...---cgcaattgcagctgcaatta	TGCCGAGTTCATTAGGCTTT	gGCCTC	tggcccttatgcctctgggc--...636...-----caaaaaccagag	agccgcc-		
D.Pse	atgatcag	gtgagtgtgtgt...4249...---cgcaattgcagctgcaatta	TGCCGAGTTCATTAGGCTTT	gGCCTC	tggcccttatgcctctgggc--...649...gaagccgaatcc--g	aatccga--		
D.Vir	atcaggag	gtgagctatgtt...4112...---tcgcaa-tgtaattgcaatta	TGCTGAGTTCATTAGGC	-----cgcccaaggaggagcct--...796...-----acacacacacag	a-cacgcag			
D.Yak	atgcggag	gtgagtgtgcgt...4304...-----attgcagttgcaatcatgcg	GAGTTCATTAGGCTTT	-----aggaccggctgaccgagcag--...605...-----ccgaataatag	agcacgga-			
	** *		*	*	*****	*****	*	*

id=52452 gene=FBgn0260462 name=CG12163 segment=chr3R_1069977_1077145_-1 type=IN

Figure 280: CS=11.8



```

D.Mel ttcacata cttcacactag...30...ttgaatcgttctgtccggcaGCGTGAGGATTTGccagcacccttgtgggatg-----61...attctgagtgg gctcccat
D.Sim ttcacata cttcacactag...30...ttgaatcgttctattcggcaGCGTGAGGATTTGccCAGTGTcctt-tttggtgcctcgcac...50...attctgagtgg gccccctt
D.Sec ttcacata cttcacactag...30...ttgaatcgttctattcggcaGCGTGAGGATTTGccCAGTGTcctt-gttggtgcctcgcac...50...attctgagtgg gccccctt
D.Ana ttcacata cttcacatag...30...gtgaatcgttctattcggcaGCGTGAGGATTTGccagcggcctt-tgtggtgt-----69...attctgagtgg gctccttt
D.Gri ttcactta cttcacactat...30...gtgaatcgttttattcggcaGCGTGAGGTTTTGcGTGATGccctt-tgcggtatgacttcg...58...attctgagtgg gtacaaaa
D.Moj ttcactta ctttcacacaaa...30...atgaatcggtttattcggtaGCGTGAGGATTTGcgttatgccctt-tacgttgt-----63...attctgagtgg tctcaaat
D.Per ttcactta ctttcgcacaaa...30...ttaaactcgtcctattcggcaGCGTGAGGTTTTGcccagcgcctt-tctggtgc-----69...attctgagtgg gtaccttt
D.Pse ttcactta ctttcgcacaaa...30...ttaaactcgtcctattcggcaGCGTGAGGTTTTGcccagcgcctt-tctggtgc-----69...attctgagtgg gtaaccct
D.Vir ttcactta ctttcacacttt...30...atgaatcgttttattcggcaGCGTGAGGATTTGcGTGATGccctt-tgcgatgtgatttta...57...attctgagtgg gtaccatc
D.Yak ttcacata ctttcacactag...30...ttgaatcgttctattcggcaGCGTGAGGATTTGcCAGTGTcctt-tgtggtgcttcgcact...50...attctgagtgg gctctctt
***** ** ***** ** * ***** * * ** ***** ** * * ***** ** * * ***** **

```

id=36133 gene=FBgn0065046 name=snoRNA:U3:9B segment=chrX_10242203_10242370.1 type=EN

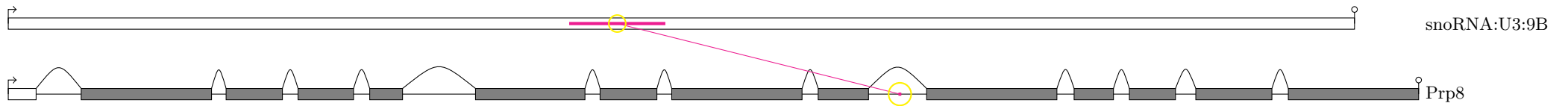
```

D.Mel cagtgcag gcaggttttcca...1310...-----tgtcatgt-cctctatattgtCAGAgTCTCaACGCcctataagatgtgtgtcta...774...tctgatgtttag ctgcgcaa
D.Sim cagtgcag gcaggttttcca...1300...gtttgtgtcatgt-tctctATATTGtCAGAgTCTCaACGCcctataagatgtgtgtcta...749...tctgatgtttag ctgcgcaa
D.Sec cagtgcag gcaggttttcca...1311...gtttgtgtcatgt-tctctATATTGtCAGAgTCTCaACGCcctataagatgtgtgtcta...747...tctgatgtttag ctgcgcaa
D.Ana ccgtgcag gcaggttttcc...976...-----gtcatgtgtctctatattgtCAGAgTCTCaACGCcctataagatgtgtgtcta...623...aacaccatttag ctgcgcaa
D.Gri cagcaaca gcagcagcagca...1205...-tttgtgtatcatgt-tctctaTATTGTCAGAGTCTCaACGCcctataagatgtgtgtcta...844...ttatatgtttag ctgcgcaa
D.Moj ccgtgcag gcaggttttcc...809...-----tgtcatgt-tctctatattgtCAGAgTCTCaACGCcctataagatgtgtgtcta...862...tcgcatatttag ctgcgcaa
D.Per aagtgcag gcaggttttcc...1129...-----tgtcatgt-tctcaatattgtCAGAGTCTCaACGCcctataaccatgtgtgtcta...1665...tcccacatatag cttcgcaa
D.Pse aagtgcag gcaggttttcc...1105...-----tgtcatgt-tctcaatattgtCAGAGTCTCaACGCcctataaccatgtgtgtcta...1480...tcccacatatag cttcgcaa
D.Vir cagtgcag gcaggttttcc...971...-tttgtgtcatgt-tctctaTATTGTCAGAgTCTCaACGCcctataagatgtgtgtcta...878...gtgcatatttag ctgcgcaa
D.Yak cagtgcag gcaggttttcca...1367...gtttgtgtcatgt-tctctATATTGtCAGAgTCTCaACGCcctataagatgtgtgtcta...794...tctcagtttag ctgcgcaa
* ***** * ***** ** ***** ** * * ***** ** * * ***** **

```

id=18873 gene=FBgn0011754 name=PhKgamma segment=chrX_11595161_11597322.1 type=IN VIEW

Figure 281: CS=11.8



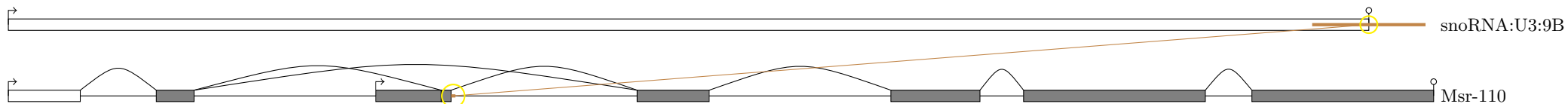
D.Mel	ttcacata	ctttcacactag...30...--ttgaatcgttctgtccggca	GCGTGAGG	ATTG	ccCAGCA	-ccctt	gtgggatgcactgca--...54...attctgagt	ggt	gctcccat	
D.Sim	ttcacata	ctttcacactag...30...--ttgaatcgttctattcggca	GCGTGAGG	ATTG	ccCAGTG	tcctttt	tg--tgccctcgcat...51...attctgagt	ggt	gccccctt	
D.Sec	ttcacata	ctttcacactag...30...--ttgaatcgttctattcggca	GCGTGAGG	ATTG	ccCAGTG	tcctttt	tg--tgccctcgcat...51...attctgagt	ggt	gccccctt	
D.Ana	ttcacata	ctttcacattag...30...--gtgaatcgttctattcggca	GCGTGAGG	ATTG	ccCAGCG	cctttt	tg--tgccctcgcat...61...attctgagt	ggt	gctccttt	
D.Gri	ttcactta	ctttcacactat...30...--gtgaatcgttttattcggca	GCGTGAGG	TTTG	CGTGA	tgccctt	tg--tgccctcgcat...60...attctgagt	ggt	gtacaaaa	
D.Moj	ttcactta	ctttcacacaaa...28...agatgaatcggtttattcgg	TAGCGTGAGG	ATTG	CGTGA	tgccctt	tg--tgccctcgcat...61...attctgagt	ggt	tctcaaat	
D.Per	ttcactta	ctttcgacacaaa...30...--ttaa	atcgctcattcggca	GCGTGAGG	TTTG	ccCAGCG	cccttt	tg--tgccctcgcat...62...attctgagt	ggt	gtacacct
D.Pse	ttcactta	ctttcgacacaaa...30...--ttaa	atcgctcattcggca	GCGTGAGG	TTTG	ccCAGCG	cccttt	tg--tgccctcgcat...62...attctgagt	ggt	gtacacct
D.Vir	ttcactta	ctttcacacttt...30...--atgaatcgttttattcggca	GCGTGAGG	TTTG	CGTGA	tgccctt	tg--tgccctcgcat...59...attctgagt	ggt	gtaccatc	
D.Yak	ttcacata	ctttcacactag...30...--ttgaatcgttctattcggca	GCGTGAGG	ATTG	ccCAGTG	tcctttt	tg--tgccctcgcat...51...attctgagt	ggt	gctctctt	
	**** *	**** *	* ****	* ** *	*****	****	** *	*	*****	

id=36133 gene=FBgn0065046 name=snoRNA:U3:9B segment=chrX.10242203.10242370.1 type=EN

D.Mel	gtgtcaag	gtataaagtgg...70...-tatgattttgat--catcccc	TGTTGCAAACCTCACGC	caaagatgatctg	cgaaata---...72...tctcctca	--cag	gcattaac
D.Sim	gtgtcaag	gtataaagtgg...69...-tatgattttgat--catcccc	TGTTGCAAACCTCACGC	caaagatgatctg	cgaaata---...77...tctcccaa	--cag	gcattaac
D.Sec	gtgtcaag	gtataaagtgg...69...-tatgattttgat--catcccc	TGTTGCAAACCTCACGC	caaagatgatctg	cgaaata---...77...tctcccaa	--cag	gcattaac
D.Ana	gtgtcaag	gtggggtttta...60...ataggtattttgat--catcccc	TGTTGCAAACCTCACGC	ccaaggtgctt	ccaacggc---...78...-ccctcgaa	acag	gcatcaac
D.Gri	gtgtcaag	gtaacaaagcgt...79...atgagc-tt-gattccatcccc	TGTTGCAAACCTCACGC	cgaaggtggcg	catctaagc---...75...atgctttg	--cag	gcatcaac
D.Moj	gtgtcaag	gtagagcagagc...90...-c-tatgattccatcccc	ttgtTGCAAACCTCACGCTG	aaggtgac--g	catagcagcaa...66...cttctccg	--cag	gcatcaac
D.Per	gtgtcaag	gtagaagctaga...88...-tatgattttgat--catcccc	TGTTGCAAACCTCACGC	caaagttgaat	cccacacct---...83...-tccttcat	ctag	gcatcaac
D.Pse	gtgtcaag	gtagaagctaga...87...-tatgattttgat--catcccc	TGTTGCAAACCTCACGC	caaagttgaat	cccacacct---...83...-tccttcat	ctag	gcatcaac
D.Vir	gtgtcaag	gtaacggagcgt...74...-tgagc-ttgattccatcccc	TGTTGCAAACCTCACGC	caaaggtggcg	catttaacc---...73...cttcttca	--cag	gcatcaac
D.Yak	gtgtcaag	gtataaagtctga...69...-tatgattttgat--catcccc	TGTTGCAAACCTCACGC	caaaggtgac	ctgcgaaata---...90...tcttctta	--cag	gaattaac
	*****	**	* ** *	*****	** **	**	** ** *

id=38187 gene=FBgn0033688 name=Prp8 segment=chr2R.8046289.8046511.-1 type=IN

Figure 282: CS=10.8



```

D.Mel ttcacata ctttcacactag...120...-gctcggtttgaacggatagaGCGAATCTGaGTGGT gctcccat
D.Sim ttcacata ctttcacactag...117...-gctcggtagaaacggatagaGCGAATCTGaGTGGT gccccctt
D.Sec ttcacata ctttcacactag...117...-gctcggtagaaacggatagaGCGAATCTGaGTGGT gccccctt
D.Ana ttcacata ctttcacattag...128...cgctcggta-acacgaatagaGCGAATCTGaGTGGT gctccttt
D.Gri ttcactta ctttcacactat...124...cgctcggta-acacgaatagaACGAATCTGaGTGGT gtacaaaa
D.Moj ttcactta ctttcacacaaa...122...cgctcggtc-acacgaataaaACGAATCTGaGTGGT tctcaaat
D.Per ttcactta ctttcgcacaaa...128...cgctcggta-aaacggatagaACGAATCTGaGTGGT gtaccttt
D.Pse ttcactta ctttcgcacaaa...128...cgctcggta-aaacggatagaACGAATCTGaGTGGT gtaaccct
D.Vir ttcactta ctttcacacttt...123...cgctcggta-acacgaatagaACGAATCTGaGTGGT gtaccatc
D.Yak ttcacata ctttcacactag...117...-gctcggtaaccacggatagaGCGAATCTGaGTGGT gctctcct
***** ** ***** ** ***** ** ***** ** ***** ** ***** ** ***** **

```

id=36133 gene=FBgn0065046 name=snoRNA:U3:9B segment=chrX_10242203_10242370_1 type=EN

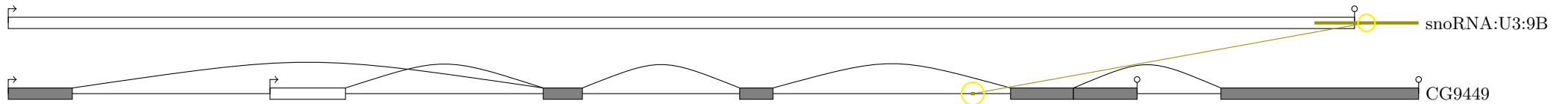
```

D.Mel aTCATCAG GTTTGTcgctcaagtctttgtctgc...1072...gtaccattctag gcctacaa
D.Sim aTCATCAG GTTTGTcgctcaagtctttgtctgc...1071...gtacttttctag gcctacaa
D.Sec aTCATCAG GTTTGTcgctcaagtctttgtctgc...1074...gtacttttctag gcctacaa
D.Ana aTCATCAG GTTTGTcgctcaagtctttgtctgc...1134...tgcttttccag gcctacaa
D.Gri aTCATCAG GTTTGTcgttcaagtctttgtcttc...1092...tgttgcttcag gcgtacaa
D.Moj aTCATCAG GTTTGTcgctcaagtctttgtcttt...1705...tttgcttcag gcgtacaa
D.Per aTCATCAG GTTTGTcgttcaagtctttgtctgc...1180...ctcttttacag gcctacaa
D.Pse aTCATCAG GTTTGTcgttcaagtctttgtctgc...1195...ctcttttacag gcctacaa
D.Vir aTCATCAG GTTTGTcgttcaagtctttgtcttt...1048...ttgttgcttcag gcgtacaa
D.Yak aTCATCAG GTTTGTcgctcaagtctttgtctgc...1126...gtacttttctag gcctacaa
***** ***** ***** ***** ***** ** ** ** *****

```

id=103526 gene=FBgn0015766 name=Msr-110 segment=chr3L_5566930_5568039_-1 type=IN

Figure 283: CS=10.8



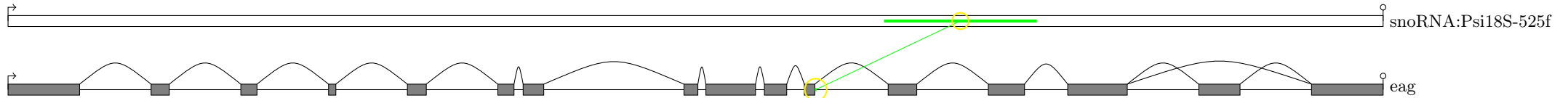
D.Mel	ttcacata	ctttcacactag...117...--atcgctcggttgaacggat	AGAGcGAATTctGAGTGGT	Gctcccat
D.Sim	ttcacata	ctttcacactag...114...--atcgctcggtagaacggat	AGAGcGAATTctGAGTGGT	Gccccctt
D.Sec	ttcacata	ctttcacactag...114...--atcgctcggtagaacggat	AGAGcGAATTctGAGTGGT	Gccccctt
D.Ana	ttcacata	ctttcacattag...124...tgatcgctcggta-acacgaa	TAGAGcGAATTctGAGTGGT	Gctccttt
D.Gri	ttcactta	ctttcacactat...120...tgatcgctcggta-acacgaa	TAGAAcGAATTctGAGTGGT	Gtacaaaa
D.Per	ttcactta	ctttcgcacaaa...125...gatcgctcggta-aaacggat	AGAAcGAATTctGAGTGGT	Gtaccttt
D.Pse	ttcactta	ctttcgcacaaa...125...gatcgctcggta-aaacggat	AGAAcGAATTctGAGTGGT	Gtaaccct
D.Vir	ttcactta	ctttcacacttt...125...-----ctcggtta-acacgaatagaac	GAATTctGAGTGGT	Gtaccatc
D.Yak	ttcacata	ctttcacactag...114...--atcgctcggtaaccacggat	AGAGcGAATTctGAGTGGT	Gctctctt
	***** **	***** **	***** **	***** **

id=36133 gene=FBgn0065046 name=snoRNA:U3:9B segment=chrX_10242203_10242370_1 type=EN

D.Mel	gtcccgat	gtgagtaagcag...538...aagctcaagcgcgcttggt	CATCACTCAATTC	TTCT	--ctg-----ctcttctcgttctggtt...59...tcccgcgacag	tcggtcca
D.Sim	gtcccgat	gtgagtaagcag...527...aagctcaagcgcgcttggt	CATCACTCAATTC	TTCT	--ctt-----ctcttctcgttctggtt...66...tcccgcgacag	tcggtcca
D.Sec	gtcccgat	gtgagtaagcag...440...aagctcaagcgcgcttggt	CATCACTCAATTC	TTCT	--ctt-----ctcttctcgttctggtt...66...tcccgcgacag	tcggtcca
D.Ana	gtcccgat	gtgagtaagcag...231...aagctcaagcgcgcccggct	CATCACTCAATTC	TTCTG	-ctc-----tttttcgcccttctact...43...ttacctcatag	tcggtccta
D.Gri	gtcccgat	gtgagtaacca...83...gagctcaagcgcgcttgct	CATCACTCAATTT	ctTTTTC	ctc-----tctgctctgctctgctc...42...ccacatgaacag	ttggtgca
D.Per	gtcccgat	gtgagtaagcag...107...aagctcaagcgcgcttggt	CATCACTCAATTT	TTCT	--tct---ccttctttctgctctcgtt...35...cttccatgcag	ctggtgca
D.Pse	gtcccgat	gtgagtaagcag...113...aagctcaagcgcgcttggt	CATCACTCAATTT	TTCT	--tct---ccttctttctgctctcgtt...41...cttccatgcag	ctggtgca
D.Vir	gtcccgat	gtgagtaacca...107...aagctcaagcgcgcttgct	CATCACTCAATTT	-----	ccttaacgctcttctcgtt...29...ttacatcttcag	ttggtgca
D.Yak	gtcccgat	gtgagtaagcag...375...aagctcaagcgcgcttggt	CATCACTCAATTC	TTCT	--ctt-----ctcttctggttctggtt...70...tcccgcgacag	tcggtcca
	*****	***** *	***** *	***** *	***** *	***** *

id=21061 gene=FBgn0036875 name=CG9449 segment=chr3L_19486759_19487437_-1 type=IN

Figure 284: CS=11.34



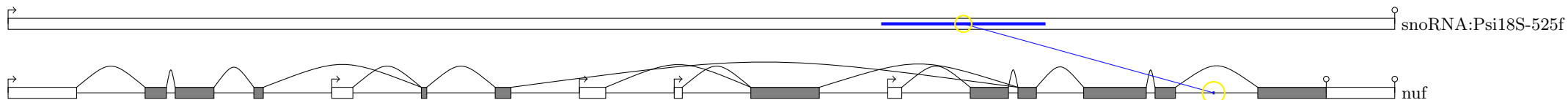
D.Mel	--tgtatgtc	gtggaggtaaag...34...tcaaacactcc---caaatcaac	TTGGttGGCGaaCGGCA	CCTGagTAAT	taataatattacatcagatgacttgagttcgcgcaaat--cg	ctttaaga--	
D.Sec	--tgtatgtc	gtggaggtaaag...34...tcaaacactcc---gaaatcaac	TTGGttGGCGaaCGGCA	CCTGagTAAT	taataatattacatcagatgacttgagttcgcgcaaat--cc	ctttaaga--	
D.Ana	--agtatgtc	ctggagtc	caaag...44...-----c-----aaaactaa	ccaataacg--ACGGCA	CCTGaaTAAT	tattcatattatgacagatgacttggctcgtacag--aa	ctctaataaa
D.Gri	--tatactcc	atggagtc	caaag...44...-----c-----aaaatcaat	cctaataacg--ACGGCA	CCTGttTAAT	cccttatattataacagatgacttggctcgtacag--ta	ctccaatc--
D.Moj	--tatactcc	gtggagtc	caaag...39...-----tactcc---caataaac	ctaaa--GACGaaCGGCA	CCTGttTAAT	taataatattacatcagatgacttggctcgtacag--ac	cctaatac--
D.Per	-ttgtattcc	-tggagctaaag...41...-----actccaata	aaaaactagata---GACGaaCGGCA	CCTGaaTAAT	ccctcgtattataacagacgacttggctcgtacag--ac	ctttaact--	
D.Pse	-ttgttttcc	-tggagccaaag...41...-----actccgata	aaacacgata---GACGaaCGGCA	CCTGaaTAAT	ccctcgtattataacagacgacttggctcgtacag--ac	ctttgactg-	
D.Vir	gttataccct	caggagtc	caa...41...-----tgctcc---aaaacta	ataaaa--GACGaaCGGCA	CCTGttTAAT	ctcttatattataacagatgacttggctcgtacag--cc	ctccaatc--
D.Wil	actgttatac	--ggagccaaag...46...-----gaaatga	acttaagatccga--ACGGCA	CCTGttTAAT	ccctcatattataacagatgacttggctcgtacag--cc	cctaaaat--	
	*	**** **	**	***** **	* **** * **** * **** * ** * * **	* *	

id=72676 gene=FBgn0083033 name=snoRNA:Psi18S-525f segment=chr2L_20419774_20419908.1 type=EN

D.Mel	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...1180...aacgatatacag	ctctgctg
D.Sec	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...1194...tcaacgatatacag	ctctgctg
D.Ana	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...1006...tgtgtgatatacag	ctctgctg
D.Gri	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...1074...ctacatatacag	ctctgctg
D.Moj	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...971...aaaacactgtag	ctctgctg
D.Per	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...937...ttgctgttatag	ctctgctg
D.Pse	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...947...ttgctgttatag	ctctgctg
D.Vir	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...1084...taacaactatag	ctctgctg
D.Wil	cATTGCAG	GTGCTGTGTC	TTAA	cacggtccggtgctgctcc...900...atatatacag	ctttactc
	*****	*****	*****	* **	** * **

id=42745 gene=FBgn0000535 name=eag segment=chrX_14890740_14891966.1 type=IN

Figure 285: CS=15.75



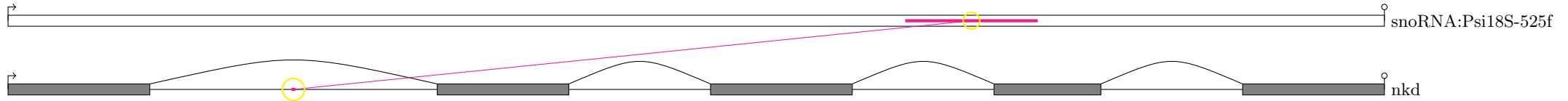
D.Mel	--tgtatgtc	gtggaggtaaag...45...-----caaatcaacttggtggcga	ACGGc	ATCCTga	GTAATTAATAA	tattacatcagatgacttgagttcgcgcacaatc---g	ctttaaga
D.Sim	--tgtatgtc	gtggaggtaaag...45...-----caaatcaactaggtggcga	ACGGc	ATCCTga	GTAATTAATAA	tattacatcagatgacttgagttcgtgcacaagc---c	ctttaaga
D.Sec	--tgtatgtc	gtggaggtaaag...45...-----gaaatcaacttggtggcga	ACGGc	ATCCTga	GTAATTAATAA	tattacatcagatgacttgagttcgtgcacaagc---c	ctttaaga
D.Ana	--agtatgtc	ctggagtaaag...44...-----caaaactaaacaaatacgg	ACGGc	ATCCTGAATAA	Tattcatattatgctagatgacttggtctgcgtacagaactct	aataaaa--	
D.Gri	--tatactcc	atggagtcaaag...44...-----caaaatcaatctaaat-gcga	ACGGc	ATCCTGtt	TAATc	ctttatattataacagatgacttggttgggtgtacagttactc	c---aatc
D.Moj	--tatactcc	gtggagtcaaag...44...-----ccaataaacctaagacga	ACGGc	ATCCTGtt	TAATTAATc	ATATtaatacagatgacttggttctgtgtacaata---c	cctaaatc
D.Per	-ttgtattcc	-tggagctaaag...46...-----aataaaaactagatagacga	ACGGc	ATCCTGAATAA	Tccctcgtattataacagacgacttggttctgtgtacaatagacc	tttaact-	
D.Pse	-ttgttttcc	-tggagccaaag...46...-----gataataacacgatagacga	ACGGc	ATCCTGAATAA	Tccctcgtattataacagacgacttggttctgtgtacaatagacc	tttgactg	
D.Vir	gttataacct	caggagtcaa--...46...-----caaaactaataaaagacga	ACGGc	ATCCTGtt	TAATc	ctttatattataacagatgacttggttgggtgtacagtcgctc	c---aatc
D.Wil	actgttatac	--ggagccaaag...39...atgctccgaaatgaacttaa	GATCGc	ACGGc	ATCCTGtt	TAATc	ctttatattataacagatgacttggttgggtgtacaatc---c
	*	**** **		*	*	** ***** **	*

id=72676 gene=FBgn0083033 name=snoRNA:Psi18S-525f segment=chr2L.20419774.20419908.1 type=EN

D.Mel	aagcccag	gtctgtatttga...225...atgtgtatttaaatgaca---t---	TTATTGt	ATTACAGGAt	CTGT	ggattcagccacattagcat-----...290...tatgttttcag	ctacaaca
D.Sim	aagcccag	gtctgtatttga...223...atgtgtatttaaatgaca---t---	TTATTGt	ATTACAGGAt	CTGT	ggattcagccacattagcat-----...282...tatgttttcag	cttcaaca
D.Sec	aagcccag	gtctgtatttga...223...atgtgtatttaaatgaca---t---	TTATTGt	ATTACAGGAt	CTGT	ggattcagccacattagcat-----...282...tatgttttcag	cttcaaca
D.Ana	aagctcag	gtgggtggctcg...232...-----atthaattgaca---tttattg---	TATTACAGGAt	CTGT	ggattcagccacattagcat-----...313...tatattttacag	ctgcaaca	
D.Gri	aggctcag	gtgtgtgttgc...208...-----atthattattgta---tttattg---	ATTACAGGAt	CTGT	ggattcagccacattagcat-----...349...acaatttacag	ctgcaaca	
D.Moj	aagctcag	gtttgttagccg...203...atthttatataatataaaa---t	GTATtt	ATTGt	ATTACAGGAt	CTGT	ggattcagccacattagcat-----...342...aatcaattccag
D.Per	aagcgcag	gtgtgtatccag...267...-----atthattattgaaa---tttattg---	TATTACAGGAt	CTGT	ggattcagccacattagcat-----...266...tttgtttacag	ctgcaaca	
D.Pse	aagcgcag	gtgtgtatccag...282...-----atthattattgaaa---tttattg---	TATTACAGGAt	CTGT	ggattcagccacattagcat-----...265...tttgtttacag	ctgcaaca	
D.Vir	aagctcag	gtttgttaatgtc...208...-----atthattattgta---tttattg---	ATTACAGGAt	CTGT	ggattcagccacattagcat-----...400...atcaacttacag	ctgcaaca	
D.Wil	aagctcag	gtgtgtagaact...295...-----atattgaaatttatattgt---	ATTACAGGAt	CTGTGGAt	ttcagccacattagcatcctta...333...tgcatattacag	ctccagca	
	* ** **	** **		*	*	*****	** **

id=43701 gene=FBgn0013718 name=nuf segment=chr3L.14224426.14225026.1 type=IN

Figure 286: CS=14.5



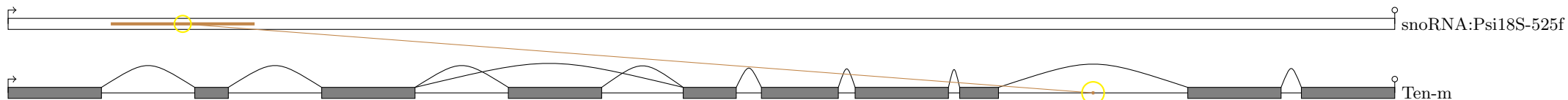
D. Mel	tgtatgtc	gt-ggaggtaaag...47...aatcaacttggtggcgaac-----GGCATCCTGAgTAAT	taataatattacatcagatgacttgagttcgcgcacaat--cg	ctttaaga-	
D. Sim	tgtatgtc	gt-ggaggtaaag...47...aatcaactaggtggcgaac-----GGCATCCTGAgTAAT	taataatattacatcagatgacttgagttcgtgcacaag--cc	ctttaaga-	
D. Sec	tgtatgtc	gt-ggaggtaaag...47...aatcaacttggtggcgaac-----GGCATCCTGAgTAAT	taataatattacatcagatgacttgagttcgtgcacaag--cc	ctttaaga-	
D. Ana	agtatgtc	ct-ggaggtcaaag...41...-----ctccaaaactaaacaaataCGGA	GGCATCCTGAgTAAT	tattcatattatgtcagatgacttggtctcgttacaga--ac	tctaataaa
D. Gri	tatactcc	at-ggaggtcaaag...46...aatcaatctaaat-gcgaac-----GGCATCCTGtTTAAT	cctttatattataacagatgacttggttgggtacagt--ta	ctccaatc-	
D. Moj	tatattct	gt-ggaggtcaaag...46...aataaacctaaagcgaac-----GGCATCCTGtTTAAT	taatcatattaatacagatgacttggttctgttacaat--ac	cctaaatc-	
D. Per	-ttgtatt	cctggagctaaag...48...-taaaaactagatagacgaac-----GGCATCCTGAgTAAT	ccctcgtattataacagacgacttggttctgttacaatagac	ctttaact-	
D. Pse	-ttgtttt	cctggagctaaag...48...-taataacacgatagacgaac-----GGCATCCTGAgTAAT	ccctcgtattataacagacgacttggttctgttacaatagac	ctttgactg	
D. Wil	actgttat	ac-ggagctcaaag...48...-aatgaacttaagatcgaac-----GGCATCCTGtTTAAT	ccttcattataaacagatgacttatgtttgttacaat--cc	cttaaaat-	
	*	**** **	**** * **** ** * **** ** * * **		

id=72676 gene=FBgn0083033 name=snoRNA:Psi18S-525f segment=chr2L_20419774_20419908_1 type=EN

D. Mel	attctcag	gtaagcgaaagc...4411...cgccgccgacgacgacgtcATTAAATTAGGaATGCT	c----tccgagctgccgcctttca-----...498...ttcccgttgcag	tccaggaa
D. Sim	attctcag	gtaagcgaaagc...4427...cgccgccgacgacgacgtcATTAAATTAGGaATGCT	c----tccgagctgccgcctttca-----...482...ttctcgttgcag	tccaggaa
D. Sec	attctcag	gtaagcgaaagc...4436...cgccgccgacgacgacgtcATTAAATTAGGaATGCT	c----tccgagctgccgcctttca-----...473...ttaccgttgcag	tccaggaa
D. Ana	attctcag	gtaagcgaaagc...4375...cggttgccgtcgcacgacgtcATTAAATTAGGaATGCT	TCGG-----agcagccgcctttcaagtg...529...gtgtctttgcag	tccaggaa
D. Gri	gttctcag	gtaagagcaaca...4461...acaactgtcggacgacgtcATTAAATTAGGaATGCT	c----tcggcgcagtcgcctttca-----...448...tgctggtcagc	aactgac
D. Moj	attctcag	gtaagtctaaat...4574...actttacagttgacgacgtcATTAAATTAGGaATGCT	cgagaggcggcgcagtcgccc-----...335...taattcctacag	tccaggaa
D. Per	attctcag	gtaagcgagaaa...4499...cgacgacgacgacgacgtcATTAAATTAGGaATGCT	c----tccgaacagtcgcctttca-----...410...gtgtctttgcag	tccaggaa
D. Pse	attctcag	gtaagcgagaaa...4489...cgccgacgacgacgacgtcATTAAATTAGGaATGCT	c----tccgaacagtcgcctttca-----...420...gtgtctttgcag	tccaggaa
D. Wil	attctcag	gtaagatttaat...4472...atgccgatgccgacgacgtcATTAAATTAGGaATGCT	c----tctgagcagttgtcgttcc-----...437...atctccttacag	tccaggag
	*****	**** * *****	* * * *	* * *

id=27633 gene=FBgn0002945 name=nkd segment=chr3L_19004159_19037403_-1 type=IN

Figure 287: CS=11.97



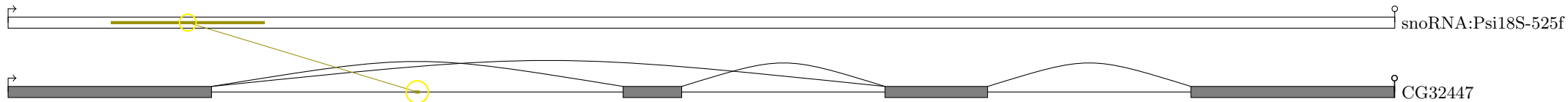
D.Mel	tgtatgtc	gt--GGAGGtAAAGtGGCA	tctctcgggatataaacct...86...cgcgcaaatcg	cttt--aaga
D.Sim	tgtatgtc	gt--GGAGGtAAAGtGGCA	ttctcaggatatttaacct...86...cgtgcacaagcc	cttt--aaga
D.Sec	tgtatgtc	gt--GGAGGtAAAGtGGCA	ttctcaggatatttaacct...86...cgtgcacaagcc	cttt--aaga
D.Ere	--tgtctt	ctgt-GGAGtCAAAGtGGCA	gtttcaaattatttgattt...81...tgtgtacagtaa	aaca--ataa
D.Ana	agtatgtc	ct--GGAGtCAAAGtGGCA	cattttggagtcctccttcg...86...gctgtacagaac	tctaataa--
D.Gri	--tatact	ccat-GGAGtCAAAGtGGCA	tattctggattcctcttcg...85...ggtgtacagtta	ctcc--aatc
D.Moj	--tatatt	ctgt-GGAGtCAAAGtGGCA	tattctgagatttctctc...85...cgtgtacaata	--ccctaaatc
D.Per	-ttgtatt	cc-t-GGAGctAAAGtGGCA	tattctgaacaaaccttca...89...--gtacaatag	acctttaact-
D.Pse	-ttgtttt	cc-t-GGAGccAAAGtGGCA	tattctgaacaaaccttca...90...--gtacaatag	acctttgactg
D.Vir	gttatacc	ct-cAGGAGtCAAAGtGGCA	tattttgggaatttaaccga...85...tgtgtacagtcg	ctcc--aatc
		* *	*** ***** *	* ** *

id=72676 gene=FBgn0083033 name=snoRNA:Psi18S-525f segment=chr2L.20419774.20419908.1 type=EN

D.Mel	aacgaaag	gtaggttattcg...543...-taattcaatta-ttttctctc	TGCTctC-TTTTCTTC	tc-cacacgcgctccctaaac-...856...tccttttaacag	tcgatcag
D.Sim	aacgaaag	gtaggtgattcg...1099...ctaattcaatta-ttttctctc	TGCTctC-TTTTCTTC	tc-cacacgcgctccctaaac-...871...tccttttaacag	tcgatcag
D.Sec	aacgaaag	gtaggtgattcg...561...-taattcaatta-ttttctctc	TGCTctC-TTTTCTTC	tc-cacacgcgctccctaaac-...871...tccttttaacag	tcgatcag
D.Ere	aacgagag	gtaggtgctttg...553...-taattcaatta-ttttctctc	TGCTctC-TTTtCTTC	tc-cacacgcgctccctaaac-...913...tccttttaacag	tcgatcag
D.Ana	aatgagag	gtaagtgattcc...729...-taatacaatta-ttttctctc	TGCTctC-TTTtCTTC	tc-cacacgcgctccctaaac-...843...tactccctacag	ccgatcgg
D.Gri	aacgagag	gtaggtgcttcc...740...--aattcaattatttttctctc	TGCTctCTTtCTTC	tc-atcacgcgctccctaaac-...865...ctttccaacag	ccgatcgg
D.Moj	aatgagag	gtaggtgcttcc...713...-taattcaata-ttttctctc	TGCTctCTTtCTTC	tc-atcacgcgctccctaaac-...834...cttccccaacag	ccgatcag
D.Per	aacgagag	gtgggtgcttcc...726...-taattcaatta-ttttctctc	TGCTctC-TTTtCTTC	tcaaacacgcgctccctaaa-...1159...taatccccacag	ccgatcgg
D.Pse	aacgagag	gtgggtgcttcc...726...-taattcaatta-ttttctctc	TGCTctC-TTTtCTTC	tcaaacacgcgctccctaaa-...1156...taatccccacag	ccgatcgg
D.Vir	aacgagag	gtaggtgctttc...717...--aattcaaatatttttctctc	TGCTttCTTtCTTC	tc-atcacgcgctccctaaac-...850...ctttccaacag	ccgttcag
	** ** *	** ** *	*** ** * ***** ** *****	***** ** * *	**** ** * *

id=80177 gene=FBgn0004449 name=Ten-m segment=chr3L.22294417.22295894.-1 type=IN

Figure 288: CS=11.5



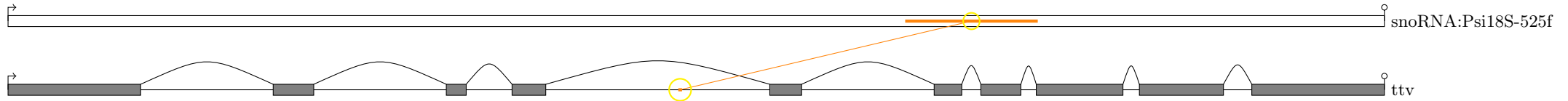
D. Mel	-----tgtatgtc-----	GTGGAGGtAAAGtgGCATT	-ctcgggatataataaacctgcctgtgtctcaaacactc:::atcagatgacttgagttcgcgcacaaat--cg	ctttaaga-
D. Sim	-----tgtatgtc-----	GTGGAGGtAAAGtgGCATT	-ctcaggatatttaaacctgcctgtgtctcaaacactc:::atcagatgacttgagttcgtgcacaag--cc	ctttaaga-
D. Sec	-----tgtatgtcg-----	TGGAGGtAAAGtgGCATT	-ctcaggatatttaaacctgcctgtgtctcaaacactc:::atcagatgacttgagttcgtgcacaag--cc	ctttaaga-
D. Ere	-----tgtcttct-----	GTGGAGtAAAGtgGCATgTTTCA	-----aattatttgatttggctctcaaaagctc:::agcagatgacttttggttgtacagtaaaa	caataa--
D. Gri	-----tatactccat-----	GGAGtAAAGtgGCATgTTTCA	-----ctcttccgatttggctctcaaaactc:::aacagatgacttggttgggtacagt--ta	ctccaatc-
D. Moj	-----ta--ta-----	TTCTGTGGAGtAAAGtgGCAT	attctgagatt--tcctctcgatctgtgtctcaaaactc:::tacagatgacttggttcgtgtacaat--ac	cctaaatc-
D. Per	-----ttgtattcc-----	TGGAGctAAAGtgGCATgTTTC	-tgaacaaacctcagatttggctctcaaaactc:::aacagacgacttggttcgtgtacaatagac	ctttaact-
D. Pse	-----ttgtttcc-----	TGGAGccAAAGtgGCATgTTTC	-tgaacaaacctcagatttggctctcaaaactc:::aacagacgacttggttcgtgtacaatagac	ctttgactg
D. Vir	---gtta--taccctca-----	GGAGtAAAGtgGCATgTTTT	gggaat--ttaaccgaatttggctctcaaaactc:::aacagatgacttggtttgggtacagt--cg	ctccaatc-
D. Wil	actgtta--ta-----	CGGAGccAAAGtgGCAT	-atttagtttcgattcttacaatttggctctcaaaactc:::aacagatgacttatgtttgggtacaat--cc	cctaaatc-
D. Yak	cacaataactagtcgaa CATTGG	GTGGAGtAAAGtgGCATgTTTT	-aggat-----aaactc:::tgcatat-----at	cgctcattgg
	*	**** *****	*** ** * * *	*

id=72676 gene=FBgn0083033 name=snoRNA:Psi18S-525f segment=chr2L.20419774.20419908.1 type=EN

D. Mel	tggaggtg	gtaagtcgccgct...4751...-----agcgttgccgcatgtgaaa- AATGCTTTTCTCCGC -----ctcgaatgggatggaaaat-----...158...tcactctc-aaag	agccagac
D. Sim	tggaggtg	gtaagtcgccgct...4741...-----agcgttgccgcatgtgaaa- AATGCTTTTCTCCGC -----ctcgaatgggatggaaaac-----...168...tcactctc-aaag	agccagac
D. Sec	tggaggtg	gtaagtcgccgct...4747...-----agcgttgccgcatgtgaaa- AATGCTTTTCTCCGC -----gctcgaatgggatgg-aaac-----...163...tcactctc-aaag	agccagac
D. Ere	cggaggtg	gtaagtcgccgct...4694...tgcctatcggtgcccagtg- TGAAAaATGCTTTTCTCCGC -----ctcgaatgggatggaaaac-----...210...tcactctc-aaag	agccagac
D. Gri	tggcggag	gtgagttttgtt...4761...--tgagtgtgtggcatgtg- AGAAAaATGCTTTTCTTC -----tgccaagaccaagcctgag-----...147...tcactctc-aaag	tacactca
D. Moj	cggcggag	gtaagtttcct...4797...-----gcgttggtggcatgtgaaa- ATGCTTTTCTCCGC ct AGAG cgtggccaagcctcgtag-----...107...tcactctc-gaag	tacacaca
D. Per	tggtggag	gtaagtcctct...4759...-gccaacggttggccatgt- GAAAaATGCTTTTCTCCGC -----cctccagatgggaggggaaa-----...147...tcactctc-aaag	accccaga
D. Pse	tggtggag	gtaagtcctct...4760...-gccaacggttggccatgt- GAAAaATGCTTTTCTCCGC -----cctccagatgggaggggaaa-----...146...tcactctc-aaag	accccaga
D. Vir	tggcggag	gtaagttttgt...4808...--caatgcattgtggcatgtg- AAAAATGCTTTTCTCC -----gcctagagcagagcagcga-----...100...tcactctc-gcag	cacacaca
D. Wil	tggtggag	gtaagttcaaac...4660...-gctgttg--gccatgtgaaaa ATGCTTTTCTCCGC -----cctcagatagaggaatagag-----...251...tcactctcaaaag	accccag-
D. Yak	tggaggtg	gtaagtcgccgct...4084...-cccagcgttgccgcatgtg- AAAAATGCTTTTCTCCGCCTcgAAATG -----gtaggaaaatctcctagc...813...tcactctc-aaag	agccagac
	** * * *	** * * * *	***** ** *

id=64744 gene=FBgn0052447 name=CG32447 segment=chr3L.21690819.21697647.-1 type=IN

Figure 289: CS=14.63



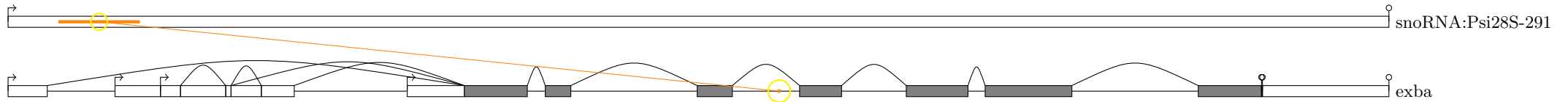
D.Mel	--tgtatgtc	gtggaggtaaag...48...-atcaacttggtggcgaac	GCATCCTGAGTAATTA	ataatattacatcagatgacttgagttcgcgcacaatcg	ctttaaga---
D.Sim	--tgtatgtc	gtggaggtaaag...48...-atcaactagttggcgaac	GCATCCTGAGTAATTA	ataatattacatcagatgacttgagttcgtgcacaagcc	ctttaaga---
D.Sec	--tgtatgtc	gtggaggtaaag...47...aatcaacttggtggcgaac	GGCATCCTGAGTAATTA	ataatattacatcagatgacttgagttcgtgcacaagcc	ctttaaga---
D.Ana	--agtatgtc	ctggagtcгааag...47...aactaaaccaaаt-acggaac	GCATCCTGAATAAATTA	tcatattatgtcagatgacttggttctgcgtacagaac	tctaataaa-
D.Gri	--tatactcc	atggagtcaaag...47...aatcaatctaaat-gcgaac	GCATCCTGTTAAT	ctttatattataacagatgacttggttgggtacagtta	ctcc---aatc
D.Moj	--tatattct	gtggagtcaaag...47...-aataaacctaaagacgaac	GCATCCTGTTAAT	taatcatattaatacagatgacttggttcgtgtacaata-	--ccctaatic
D.Per	-ttgtattcc	-tggagctaaag...49...-aaaaactagatagacgaac	GCATCCTGAATAAT	ccctcgtattataacagacgacttggttcgtgtacaatag	acctttaact-
D.Pse	-ttgttttcc	-tggagcгааag...49...-aataacacgatagacgaac	GCATCCTGAATAAT	ccctcgtattataacagacgacttggttcgtgtacaatag	acctttgactg
D.Vir	gttataccct	caggagtcaa--...49...-aactaattaaagacgaac	GCATCCTGTTAAT	ctcttataattataacagatgacttggtttgggtacagtcg	ctcc---aatc
	*	**** **	* * *	** ***** * * * * *	**** * * * * *

id=72676 gene=FBgn0083033 name=snoRNA:Psi18S-525f segment=chr2L.20419774_20419908.1 type=EN

D.Mel	tgctgcag	gtgagctggagc...1177...-cattggcatgtttgcctttg	TAGTtTATTGgCAGGaaATGC	aattaa-ttaagttaacttga-...306...-atacatatatag	gtaccgga
D.Sim	tgctgcag	gtgagccggagc...1188...-cattggcatgtttgcctttg	TAGTtTATTGgCAGGaaATGC	aattaa-ttaagttaacttga-...321...-acatatatatag	gtgcccga
D.Sec	tgctgcag	gtgagccggagc...1174...-cattggcatgtttgcctttg	TAGTtTATTGgCAGGaaATGCT	attaa-ttaagtaacttga-...315...-acatatatatag	gtgcccga
D.Ana	tgctgcag	gtgagccgatcc...1064...ccattggcatgtttgcctttg	GTAGTtTATTGgCAGGaaATGC	aattaa-ttaagttaacttga-...341...-tttcgctccag	gtaccaga
D.Gri	tactgcag	gtgagttgacca...969...-----catgttgctttttagttt	ATTGGCAGGaaATGC	aattaa-ttaagttaacttga-...378...ctcttat-tgcag	gtgcccga
D.Moj	tgctccag	gtgagttggcca...2010...-----catgttgctttttagttt	ATTGGCAGGaaATGC	aattaa-ttaagttaacttga-...310...-ctctgcttcag	gtaccgga
D.Per	tgctgcag	gtgagcгааacg...934...-----ggcatgtttgcctttgtagt	TTATTGgCAGGaaATGC	aattaattacgtaacttga-...264...tctcta-ttacag	gtaccgga
D.Pse	tgctgcag	gtgagcгааacg...911...-----ggcatgtttgcctttgtagt	TTATTGgCAGGaaATGC	aattaattacgtaacttga-...266...tctcta-ttacag	gtaccgga
D.Vir	tgctgcag	gtgagttgtcca...1209...-----catgttgctttttagttt	ATTGGCAGGaaATGC	aattaa-ttaagttaacttga-...337...cactcat-tgcag	gtgcccga
	* ** **	*****	*****	***** * * * * *	* ** ** ** **

id=12822 gene=FBgn0020245 name=ttv segment=chr2R.10450891_10452458.1 type=IN

Figure 290: CS=13.95



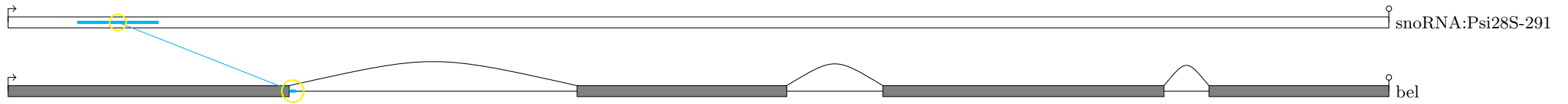
D. Mel	ttcccgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...174..	tcacgtacagtc	ccaatttc
D. Sec	ttcccgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...174..	tcacgtacagtc	ccaatttc
D. Ere	ttcccgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...174..	tcacgtacagtc	ccaatttc
D. Ana	aatgcgaT	GTCCTTGGcCTTGT	tgccactggtgctgggtc...173..	ttacgcacagcc	ccatcaat
D. Gri	cgcgcgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...165..	tcacgcacagtc	cctcaact
D. Moj	tggacgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...164..	tcacgcacagtc	tctacata
D. Per	cgtacgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...178..	tcacgtacagtc	cccaaacc
D. Pse	cgtacgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...178..	tcacgtacagtc	cccaaacc
D. Wil	aatgcgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...153..	tcacgtacattc	ccccata
D. Yak	attacgac	GTCCTTGGcCTTGT	tgccactggtgctgggtc...174..	tcacgtacagtc	ccaatttc
	***	*****	*****	**	* * * * *

id=66410 gene=FBgn0065064 name=snoRNA:Psi28S-291 segment=chr3R.7049293.7049512.1 type=EN

D. Mel	ctggttag	gtaagtcttaac...139..	actaacacatctaaggcc	ACGAGcCCAAGGAC	aggattgctagccggcgcgc---	...49..	tttgatcaacag	tcaacggt
D. Sec	ctggttag	gtaagtcttaac...135..	actagccacatccaaggcc	ACGAGcCCAAGGAC	acgattgctagctggcgcgc---	...49..	tttgatccacag	tcaacggc
D. Ere	ctggttag	gtaagttttaa...110..	attagccacatccaattgcc	ACGAGcCCAAGGAC	acgattgctagctggcgcgc---	...39..	tttaattcacag	ttaacggc
D. Ana	ctggttag	gtaagtttttca...137..	aatagccacatccaaaagcc	ACGAGcCCAAGGAC	aat---attactataatttttt...	...44..	tattttatttag	ttaacggg
D. Gri	ctggttag	gtaagcacaatg...213..	ataaccacaatgcaaaagcc	ACGAGcCCAAGGAC	---atgtatcatataccttat...	...48..	ttatcttcag	ttaatggc
D. Moj	ctggttag	gtaagcatggtt...152..	aaattccaagtcaaaagcc	ACGAGcCCAAGGAC	aatcactttagttatataca---	...253..	tatgatttacag	ttaatggc
D. Per	ctggttag	gtaagtcttcgt...136..	ttaaaccaatccaaaagcc	ACGAGcCCAAGGAC	aagaagaatccttcg---	...36..	ttgtatccttag	ttaatggc
D. Pse	ctggttag	gtaagtcttcgt...136..	ttaaaccaatccaaaagcc	ACGAGcCCAAGGAC	aagaagaatccttcg---	...36..	ttgtatccttag	ttaatggc
D. Wil	ctggttag	gtaagcatatct...151..	tacgatcaagtacaaaagcc	ACGAGcCCAAGGAC	aaatccaattactaca---	...59..	ttccgttcag	ttaatggc
D. Yak	ctggttag	gtaagtgttaa...124..	attaccacatccaattgcc	ACGAGcCCAAGGAC	aagattgctagcaggcgcgc---	...47..	tttcttatgcag	ttaacggc
	*****	*****	**	* * * * *	*****		*	** * * *

id=129694 gene=FBgn0250753 name=exba segment=chr3R.1423660.1423925.-1 type=IN VIEW

Figure 292: CS=11.5



```

D.Mel  ttcccGAC GTcCTTGgcCTTGTTCgccactg---gtgctgggtcctc...171...tcacgtacagtc ccaatttc
D.Sim  ttcccGAC GTcCTTGgcCTTGTTCgccactg---gtgctgggtcctc...171...tcacgtacagtc ccaatttc
D.Sec  ttcccGAC GTcCTTGgcCTTGTTCaccaatg---gtgctgggtcctc...171...tcacgtacagtc ccaatttc
D.Ere  ttcccGAC GTcCTTGgcCTTGTTCgccactg---gtgctgggtcctc...171...tcacgtacagtc ccaatttc
D.Ana  aatgcat GTcCTTGgcCTTGTTCgccattg---gtgttgggtcctc...170...ttacgcacagcc ccatcaat
D.Gri  cgcgcgac gtcCTTGgtCTTGTTCgccgact---gtgcctcgggtgtg...162...tcacgcacagtc ccaaactt
D.Moj  tggacgac gtcCTTGgtCTTGTTCgccggct---gtgcctcaccggcc...161...tcacgcacagtc tctacata
D.Per  cgtagcag gtcCTTGgcCTTGTTCgccatct---gtgctgggtcctt...175...tcacgtacagtc cccaaacc
D.Pse  cgtagcag gtcCTTGgcCTTGTTCgccatct---gtgctgggttctt...175...tcacgtacagtc cccaaacc
D.Wil  aatgcat gtcCTTGgcCTTGTTCgcccttgtggtgcgctcggt---...150...tcacgtacattc cccccata
D.Yak  attacgac gtcCTTGgcCTTGTTCgccactg---gtgctgggtcctc...171...tcacgtacagtc ccaatttc
      *** ***** ***** ** * * * * * * * * * *

```

id=66410 gene=FBgn0065064 name=snoRNA:Psi28S-291 segment=chr3R.7049293.7049512.1 type=EN

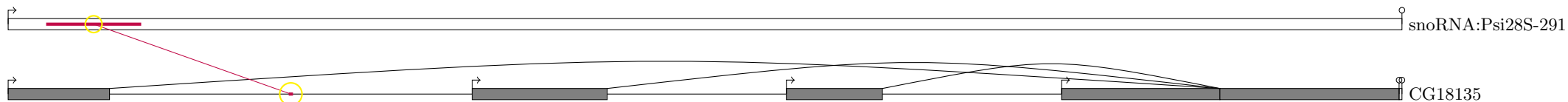
```

D.Mel  aGCAGCAA GTAAGtaGCGTtttaactgc---tgaaaatacca...1531...---taccacttgtag gttgctgg
D.Sim  aGCAGCAA GTAAGtaGCGTtttaactgc---tgaaaatacca...1535...---taccacttgtag gttgctgg
D.Sec  aGCAGCAA GTAAGtaGCGTtttaactgc---tgaaaatacca...1543...---taccacttgtag gttgctgg
D.Ere  aGCAGCAA GTAAGtaGCGTtttaaatgg---tgaaaatacca...1661...---taccactttag gttgctgg
D.Ana  aGCAGCAA GTAAGtaGTAT--atatgtgtacatatatatat---...1106...atctgtttc---cag gttgctgg
D.Gri  aGCAGCAA GTAAG-----tatg-gcggatacatccgtgg...1171...---attgttttgtag gttgctgg
D.Moj  aGCAGCAA GTAAG-----tat-tgtacttgtatatgtga...1224...---tgatttcttag gttgctgg
D.Per  aGCAGCAA GTAAG-----taaa-gcaaatgaa-atgtcgt...1123...---ttctcgtttcag gttgctgg
D.Pse  aGCAGCAA GTAAG-----taaa-gcaaatgaa-atgtcgt...1119...---ttctcgtttcag gttgctgg
D.Wil  aGCAGCAA GTAAG-----tagagtgcattatacatat---...1135...---tgtttcttacag gttgctgg
D.Yak  aGCAGCAA GTAAG-----tagtagcgtttttactggt---...1562...---tcccacttgtag gttgctgg
      ***** ***** * * * * * * * * * *

```

id=3738 gene=FBgn0000171 name=bel segment=chr3R.4484110.4485684.-1 type=IN VIEW

Figure 293: CS=11.88



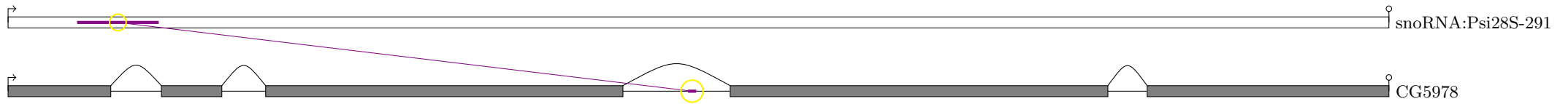
D. Mel	ttccc---	GAC	GTccTTGGccTTGTTGCG	ccactgggtgctgggtcctcg...	170...	tcacgtacagtc	ccaatttc		
D. Sim	ttccc---	GAC	GTccTTGGccTTGTTGCG	ccaatgggtgctgggtcctcg...	170...	tcacgtacagtc	ccaatttc		
D. Sec	ttccc---	GAC	GTccTTGGccTTGTTGCA	ccaatgggtgctgggtcctcg...	170...	tcacgtacagtc	ccaatttc		
D. Ere	ttccc---	GAC	GTccTTGGccTTGTTGCG	ccactgggtgctgggtcctcg...	170...	tcacgtacagtc	ccaatttc		
D. Moj	----tGGA	GAC	GTccTTGGtcTTGT	tgccgcggctgtgcctcacg----	164...	tcacgcacagtc	tctacata		
D. Per	cgtac---	GAC	GTccTTGGccTTGTTGCG	ccatctgtgctgggtccttt...	174...	tcacgtacagtc	cccaaacc		
D. Pse	cgtac---	GAC	GTccTTGGccTTGTTGCG	ccatctgtgctgggtccttt...	174...	tcacgtacagtc	cccaaacc		
D. Vir	tgcg---	GAC	GTccTTGGtcTTGTtGTGC	cgactgtgcttcgcggcgg...	158...	tcacgcacagtc	ctaaaata		
D. Wil	a---	ATG	GAC	GTccTTGGccTTGTTGCG	ccctgtggtgcgctcggtc...	149...	tcacgtacattc	ccccata	
D. Yak	attac---	GAC	GTccTTGGccTTGTTGCG	ccaatgggtgctgggtcctcg...	170...	tcacgtacagtc	ccaatttc		
		***	*****	*****	*	***	*****	***	**

id=66410 gene=FBgn0065064 name=snoRNA:Psi28S-291 segment=chr3R.7049293.7049512.1 type=EN

D. Mel	ccgaccag	gtaccagttaac...	1287...	-----acaccatcgccgcccagacagc	TGCAcACGACCAAcACGTT	ttctcggc---	ggagcaa-----	atggc--...	823...	acaaaagcgccc	gaaacagt	
D. Sim	ccgaccag	gtaccacttaac...	1273...	-----acaccatcgccgctgatagc	TGCAcACGACCAAcACGTT	ttctcggc---	ggagcaa-----	atggc--...	837...	acaaaagcgccc	gaaacagt	
D. Sec	ccgaccag	gtaccacttaac...	1274...	-----acaccatcgccgcccagacagc	TGCAcACGACCAAcACGTT	ttctcggc---	ggagcaa-----	atggc--...	836...	acaaaagcgccc	gaaacagt	
D. Ere	ccgaccag	gtaccactaaat...	1243...	-----gcaccatcgctgcccagacatc	TGCAcACGACCAAcACGTT	ttctcggc---	ggagcaa-----	gtggc--...	844...	acaaaagcgccc	gaaacagt	
D. Moj	ctgatcag	gtatgccttttg...	1288...	-----gcgacgcccagcggcagcac---	ACGACCAAcACGTTTTG	-----	tttgaagcaatg---	cgtgattg...	648...	acaaaagcgctg	ggaacagt	
D. Per	atcaccag	gtatgagatggt...	1390...	-----tcacgtgcaggtctgacggc	TGCAcACGACCAAcACGTT	-----	ttggcctttggagcaa-----	ataa-----	1171...	ccaaaagagcct	gaaacagt	
D. Pse	atcaccag	gtatgagatggt...	1383...	-----tcacgtgcaggtctgacggc	TGCAcACGACCAAcACGTT	-----	ttggcctttggagcaa-----	ataa-----	1058...	ccaaaagagcct	gaaacagt	
D. Vir	ccacgcaa	gaatgtctgaac...	1596...	-----cagcagcagcgcgacgtct---	GCACACGACCAAcACGTT	-----	tctgt--	ttggagcaatg---	catg-----	734...	acaaaagcgctt	ggaacagt
D. Wil	ctgaacag	gtatgagaattg...	2501...	-----cccatacaatgcc-----	tgacagc	TGCAcACGACCAAcACGTT	ttCGTT	-----	aggcaaagcggcctcgtggc---	920...	acaaaagcgctg	aaaacagt
D. Yak	ccgaccag	gtaccacttaac...	1307...	-----acaccatcgccgcccagacagc	TGCAcACGACCAAcACGTT	ttctcggc---	ggagcaa-----	atagc--...	887...	acaaaagcgccc	gaaacagt	
	**	* *		*	*	*****	***	*	*****	**	*****	

id=79898 gene=FBgn0036837 name=CG18135 segment=chr3L.18988908.18991100.-1 type=IN

Figure 294: CS=10



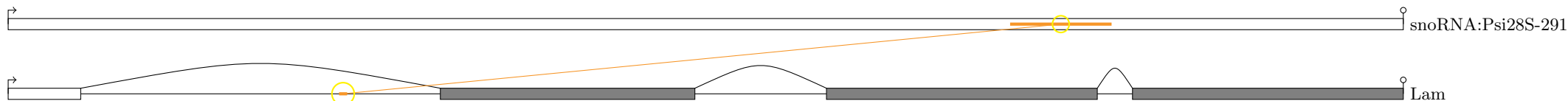
D.Mel	ttcccgac	gtcCTTgCCTTGTTCg	ccactg	---gtgctgggtcctc	...171...tcacgtacagtc	ccaatttc
D.Sim	ttcccgac	gtcCTTgCCTTGTTCg	ccactg	---gtgctgggtcctc	...171...tcacgtacagtc	ccaatttc
D.Sec	ttcccgac	gtcCTTgCCTTGTTCg	accaatg	---gtgctgggtcctc	...171...tcacgtacagtc	ccaatttc
D.Ere	ttcccgac	gtcCTTgCCTTGTTCg	ccactg	---gtgctgggtcctc	...171...tcacgtacagtc	ccaatttc
D.Ana	aatgcat	gtcCTTgCCTTGTTCg	ccattg	---gtgtgggtcctc	...170...ttacgcacagcc	ccatcaat
D.Gri	cgcgac	gtcCTTgCCTTGTTCg	ccactg	---gtgcctcgggtg	...162...tcacgcacagtc	ccaactt
D.Moj	tggacgac	gtcCTTgCCTTGTTCg	ccggct	---gtgcctcacggcc	...161...tcacgcacagtc	tctacata
D.Per	cgtacgac	gtcCTTgCCTTGTTCg	ccatct	---gtgctgggtcctt	...175...tcacgtacagtc	cccaaacc
D.Pse	cgtacgac	gtcCTTgCCTTGTTCg	ccatct	---gtgctgggttctt	...175...tcacgtacagtc	cccaaacc
D.Wil	aatgcat	gtcCTTgCCTTGTTCg	ccctt	gtgtgctgcctg	...150...tcacgtacattc	cccccata
D.Yak	attacgac	gtcCTTgCCTTGTTCg	ccactg	---gtgctgggtcctc	...171...tcacgtacagtc	ccaatttc
	***	*****	*****	**	*	* * * * *

id=66410 gene=FBgn0065064 name=snoRNA:Psi28S-291 segment=chr3R.7049293.7049512.1 type=EN

D.Mel	tgacaaag	gtgagttcaaga	...46...tgcatacc-gtgtggat-tttaGCAGCAAGTAAG	taagcccatctggaac	---tgcccca	-----aa	-----cctaataaatg	--tgtgctctatat-ag	ataaattt
D.Sim	tgacaaag	gtgagttcaaga	...42...tgcatacc-gtgtggat-tttaGCAGCAAGTAAG	ttagcgacacacgagc	---tgcccca	-----aa	-----cctaataaatg	--tgtgctccttat-ag	atcaattt
D.Sec	tgacaaag	gtgagttcaaga	...42...tgcattacc-gtgtggat-tttaGCAGCAAGTAAG	taagcggacacgagc	---tgcccca	-----aa	-----cctaataaatg	--tgtgctccttat-ag	atcaattt
D.Ere	tgacaaag	gtgagttcaga	...42...tgcatacc-gtgtggat-tttaGCAGCAAGTAAG	taagcccaccacgaga	---tgcccca	-----aa	-----cctaataaatg	--tgtgctccttat-ag	ataaattt
D.Ana	tgacgaag	gtgagtttcgat	...42...tgtctgtc-atctggac-tttaGCAGCAAGTAAG	tgattcaataaccatgttcaataatccaacgttgtaaatgataaaaagaatgactaaaattactctccctgtcctcct	---tcag				ataaactt
D.Gri	tgactaag	gtgagttcgaat	...55...tgcactcc-atgtgaa-tgtaGCAGCAAGTAAG	ttggtcgaacttaagcgaat-tacaata	-----gcccacgtta	-----aaaataagagactaacatgatt	-----tcttctcctgaccag		ataaactt
D.Moj	tgacgaag	gtgagtttcgat	...50...tgcattca-atcggaa-tttaGCAGCAAGTAAG	ttta	-----gcccacgtta	-----aaaataagagactaacatgatt	-----tcttctcctgaccag		ataaactt
D.Per	tgaccaag	gtgagtttcgat	...44...--cataccattgtggacgtttaGCAGCAAGTAAG	tgacccccactgaagc	---gacactc	-----ga	-----ttaatgagcctc	--tttgctcccaatcag	atcaattt
D.Pse	tgaccaag	gtgagtttcgat	...44...--cataccattgtggacgtttaGCAGCAAGTAAG	tgacccccactgaagc	---gacactc	-----ga	-----ttaatgagcctc	--tttgctcccaatcag	atcaattt
D.Wil	tgacaaag	gtgagtgacgta	...56...tacttat--gtatggatatttaGCAGCAAGTAAG	tatcgttcacatgagcaaatgcaaca	-----gattgtgtctaatgtaagt	-----gattttt	-----gattttt	-----gattttt	ataaattt
D.Yak	tgacaaag	gtgagttcaga	...42...tgcatacc-ttatggac-ttcaGCAGCAAGTAAG	taagaacatcacaagt	---tgcccca	-----aa	-----cctaataaatg	--tgtgctccttat-ag	ataaattt
	***	***	*****	*	***	*	*	***	***

id=73445 gene=FBgn0035916 name=CG5978 segment=chr3L.8616035.8616176.-1 type=IN

Figure 295: CS=12.65



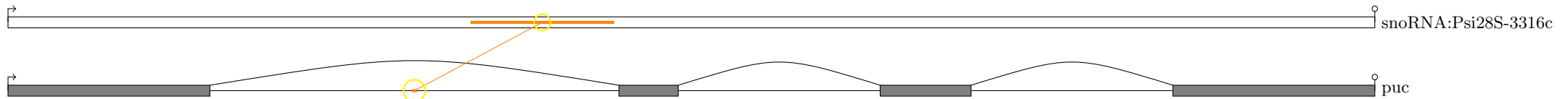
D.Mel	ttccccgac	gtccttggcctt...115...----ctgcccctcgggtggcggga-CTTGATAATTCCAGTAACGGTgcggagccgttcaggcgatgatagcgcggttaaacatatacgtacagtc	ccaatttc
D.Sec	ttccccgac	gtccttggcctt...115...----ctgcccctcgggtggcggga-CTTGATAATTCCAGTAACGGTgcggagccgttcaggcgatgatagcgcggttaaacatatacgtacagtc	ccaatttc
D.Ere	ttccccgac	gtccttggcctt...114...---actgccctcgggtggcggg-GCTTGATAATTCCAGTAACGGTgcggagccgtttaggcgatgatagcgcggttaaacatatacgtacagtc	ccaatttc
D.Ana	aatgcat	gtccttggcctt...113...---actgccctcgggtggcggg-GCTTGATAATTCCAGTAACGGTGCGAgccgctcaggctatgatcgctcggttaaacatatacgtacagtc	ccaatttc
D.Gri	cgccgac	gtccttggcctt...105...---attgccctcgggtggcggg-GCTTGATAATTCCAGTAACGGTgcgcagccgttcaggcgatgatcgctcggttaaacatatacgtacagtc	ccaatttc
D.Moj	tggacgac	gtccttggcctt...106...----tgccctcgggtggcggg-TTGATAATTCCAGTAACGGTgcgcagccgttcaggcgatgatagcgcggttaaacatatacgtacagtc	ccaatttc
D.Per	cgtagcag	gtccttggcctt...114...gaaactgccctcgggtggcGGGCGCTGATAATTCCAGTAACGGTGGCGAGccgctcaggctatgatcgctcggttaaacatatacgtacagtc	ccaatttc
D.Pse	cgtagcag	gtccttggcctt...114...gaaactgccctcgggtggcGGGCGCTGATAATTCCAGTAACGGTGGCGAGccgctcaggctatgatcgctcggttaaacatatacgtacagtc	ccaatttc
D.Vir	tgccgac	gtccttggcctt...103...---atgccctcgggtggcggg-GCTTGATAATTCCAGTAACGGTgcgcagccgttcaggcgatgaacgcaggttaaacatatacgtacagtc	ccaatttc
D.Yak	attacgac	gtccttggcctt...115...----ctgcccctcgggtggcggga-CTTGATAATTCCAGTAACGGTgcggagccgtttaggcgatgatagcgcggttaaacatatacgtacagtc	ccaatttc
	***	***** **	***** * **

id=66410 gene=FBgn0065064 name=snoRNA:Psi28S-291 segment=chr3R.7049293.7049512.1 type=EN

D.Mel	aaagtcag	gtgagttgcgct...436...----cccctcttctgttctcggt-----CTGTTTGAATttTATCAGG-gcgcaaaaataaca--taccct-----...144...ttgtcttgcag	cgtgaaca-----
D.Sec	aaagtcag	gtgagttgcgct...431...----cccctcttctgttctcggt-----CTGTTTGAATttTATCAGG-gcgcaaaaataaca--taccct-----...144...ttgtcttgcag	cgtgaaca-----
D.Ere	aaagtcag	gtaagtttctg...440...----cccctcttctgttctcggt-----CTGTTTGAATttTATCaGGG-gcaaaaataca--taccctac-----...121...attgttcttgcag	cgtgaaca-----
D.Ana	aaacacag	gtaagtttctg...391...----ttttt-gatttc--tgtttcggTTGTtCTGTtCTGTTTGAATttTATCAGGC---agggtcagctaaagcgcgca...90...ccctaactgaag	cgtgaaaa-----
D.Gri	ttaaacac	gtaagtttctg...523...----tgcttattttttcttctgctt-----CTGTTTGAATttTATCAGGCc caaaaagcgaagattgcg-----...239...tttttgcagcag	tgaaaaaa-----
D.Moj	ataaccac	gtaagtttctg...481...tgatattctg--tttc--tgttt-----CTGTTTGAATttTATCAG--cctaaagcaagcattgcg-----...102...-----gtag	caagtgaacgttaaca
D.Per	attcacac	gtaagtttctg...403...----tgtttcttattctgagattt-----CTGTGTGCTGTTTGAATttTATCAGTGCTC-----tcttactgcttttgcgct...110...ccattttaacag	cgcaaaaa-----
D.Pse	attcacac	gtaagtttctg...403...----tgtttcttattctgagattt-----CTGTGTGCTGTTTGAATttTATCAGTGCTC-----tcttactgcttttgcgct...110...ccattttaacag	cgcaaaaa-----
D.Vir	atatccac	gtaagtttctt...478...---tatttctgatatttc--tgttt-----CTGTTTGAATttTATCAGGC---caaaagcgaagattgcg-----...118...tttgggcaccag	caagtgc-----
D.Yak	aaagtcag	gtgagtttctg...434...----cccctcttctgttctcggt-----CTGTTTGAATttTATCAGG-gcgcaaaagtaaca--taccct-----...188...attcttctgag	cgtgaaca-----
	** **	** ** *	*****

id=26854 gene=FBgn0002525 name=Lam segment=chr2L.5542661.5543324.1 type=I5

Figure 296: CS=10.8



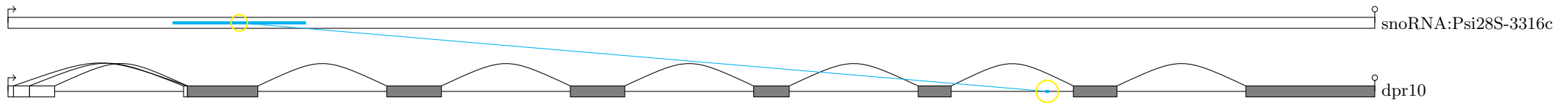
D.Mel	atnttttt-----	cagcacctaaaagcgttttcttatcagcttgat---aaa TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaata-----...49...---ttgtaaacatcc	attataag
D.Sim	gagatgat-----	cagcacctaaaagcgttttcttgtagcctgat---aaa TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaatc-----...49...---ttgtaaacatcc	attatacg
D.Sec	gagatgat-----	cagcacctaaaagcgttttcttgtagcctgat---aaa TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaatc-----...49...---ttgtaaacatcc	attatacg
D.Ere	tagattgt-----	cagcacctaaaagcgttttcttgtagcctaat---aaa TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaatc-----...49...---ttgtaaacatcc	tttataag
D.Ana	tttgtttt-----	ttgcacctaaaagcgttttcttgtagcctgtt---acc TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaatc-----...52...---gaataattgact	tttgagaa
D.Gri	--gttgtgttgaggg	tggcacctaaaagcgttttcttgtaggtcaact---taa TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaatc-----...60...---attccagacca	agtttaag
D.Per	-aggtatta-----	tagcacctaaaagcgttttcttgtagcctaat---aaa TGCTC tt GAAA a TCGT -gatgtgtgcaatagcaatc-----...56...---gttgtaaacacca	ttgatat-
D.Wil	gagatcct-----	tagcacctaaaagcgttttcttgtagcctaat---aaa TGCTC tt GAAA a TCGT -gatgtgtgcaatagcaatc-----...495...acagtttgctcatct	tttag---
D.Yak	tagacagt-----	cagcaccgaaaagcgttttcttgtagcctgat---aaa TGCTC tt GAAA a TCGT -agatgtgtgcaatagcaatc-----...38...---ttgtaaacatcc	tttataaa
	*	***** ***** * * * ***** ***** * * ** *	

id=72181 gene=FBgn0082970 name=snoRNA:Psi28S-3316c segment=chr2R.17217632.1721764.1 type=EN

D.Mel	cattggtg	gtaagtacaaaa...474...-----gctgaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcatcggca-caacaa...1583...ttcccctcggcag	ccaatcag
D.Sim	cattggtg	gtaagtacaaaa...479...-----gctgaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcatcggca-caacaa...1501...ttcccctcggcag	ccaatcag
D.Sec	cattggtg	gtaagtacaaaa...456...-----gctgaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcatcggca-caacaa...1517...ttcccctcggcag	ccaatcag
D.Ere	cattggtg	gtgagtacaaaa...492...-----gctgaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcatcggca-caacaa...1656...ttctctcggcag	ccaatcag
D.Ana	cattgggg	gtgagtacaacc...486...-----aactgaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcatcggca-caacaa...1232...atgtttttgagcag	ccaatcag
D.Gri	cattgctg	gtaagttagtggc...410...-----gcaacgaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcgtcggta-cagcaa...819...ttatcattgagcag	caaatcac
D.Per	cattggtg	gtaagtacaaaa...429...-----cgacagaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcagcggca-caacaa...957...tctcccctcggcag	ctaatacag
D.Wil	tattggtg	gtaagttagataa...419...tggcaacgccacagaaaacc CGCTTTG aa ACG acc TTTCGAGTA cgaattcatcggcagcaaca...1479...acatcattgagcag	caaatcac
D.Yak	cattggtg	gtaagtacaaaa...480...-----gctgaaaaaccgctttgaa ACG acc TTTCGAGTA cgaattcatcggca-caacaa...1573...ttctctcggcag	ccaatcag
	**** *	**** * ***** ***** ***** * * ** *	**** * *****

id=54201 gene=FBgn0243512 name=puc segment=chr3R.3931818.3933953.1 type=IN

Figure 297: CS=10.8



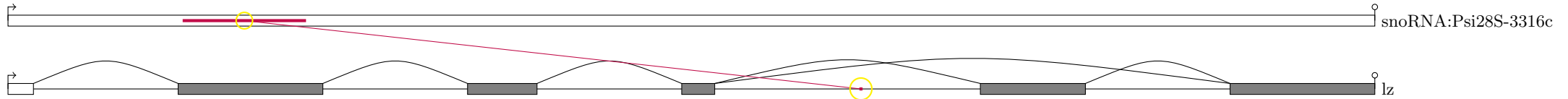
D.Mel	atTTTTT-----	cagcaccTAAAAGCGTTTTCTTAT	cagccttgataaatgctcttg-----	...77...-ttgtaaacatcc	attataag
D.Sim	gagatgat-----	cagcaccTAAAAGCGTTTTCTTGT	tagcctgataaatgctcttg-----	...77...-ttgtaaacatcc	attatacg
D.Sec	gagatgat-----	cagcaccTAAAAGCGTTTTCTTGT	tagcctgataaatgctcttg-----	...77...-ttgtaaacatcc	attatacg
D.Ere	tagattgt-----	cagcacctcAAAGCGTTTTCTTG	ccagcctaataaatgctctt-----	...78...-ttgtgaacattc	tttataag
D.Ana	tttgtttt-----	ttgcaccTAAAAGCGTTTTCTTG	ccggcctgttacctgctctt-----	...81...-gaataattgact	tttgagaa
D.Gri	gtttgtgttgagg	tggcaccTAAAAGCGTTTTCTTGTaGGTCA	acttaatgctcttgaaaatc...82...-attccagacca	agtttaag	
D.Moj	--taatat---ag	tggcaccTAAAAGCGTTTTCTTGGATTG	ctttttaaacgcgcctgaaa---...85...-tgtaattaaag	atcacata	
D.Per	aggtatta-----	tagcaccTAAAAGCGTTTTCTTG	ctgctagcccaataaatgct-----	...89...gttgtgaacacca	ttgatat-
D.Vir	tatgatat-----	aagcaccTAAAAGCGTTTTCTTGGATTG	ctttttaaacgcgcctgaaa---...90...tttat-aagatag	attatcag	
D.Yak	tagacagt-----	cagcaccgAAAAGCGTTTTCTTG	ccagcctgataaatgctcat-----	...67...-ttgtaaacatcc	tttataaa
		*****	*****	*	*

id=72181 gene=FBgn0082970 name=snoRNA:Psi28S-3316c segment=chr2R.17217632-17217764_1 type=EN

D.Mel	aggataag	gtaaatatctct...323...-----taattttggcctttatgattATGAGAAAACatGCTTTTG	catttagctcagcactcaaa...68...ttctacctttag	gtgctcag
D.Sim	aggataag	gtaaatatctct...333...-----taattttggcctttatgattATGAGAAAACatGCTTTTG	catttagctcagcactcagc...66...ttctacctttag	gtgctcag
D.Sec	aggataag	gtaaatatctct...326...-----ttaatttcgctttatgattATGAGAAAACatGCTTTTG	catttagctcagcactcagc...66...ttctacctttag	gtgctcag
D.Ere	aggataag	gtaaatatctct...336...-----aattttggcctttatgattaTGAGAAAACatGCTTTTG	catttagctcagcactca...78...tttccctttag	gtgctcag
D.Ana	aggacaag	gtaaatacggc...332...-----aattttggcctttatgattaTGAGAAAACatGCTTTTG	catttagcttagcctgtccc...68...tttcccaccag	gtactcag
D.Gri	aggataag	gtgagcatcgta...308...gtatttaatttaagcttttaTGATTATGAGAAAACatGCTTTTG	catttagctgccttcccctt...115...ttatttacacag	gtgctcag
D.Moj	aggacaag	gtaagcaatcaa...255...gtatttaattttagcttttaTGATTATGAGAAAACatGCTTTTG	catttagctcgttgccagcc...104...acacagcacag	gtgctcag
D.Per	aggacaag	gtaagtagcgc...401...-----tttggcctttatgattatgaGAAAACatGCTTTTG	catttagggtatacgccata...130...taccgtccgag	gtgcttag
D.Vir	aggataag	gtgagtatcata...308...gcatttaattttagcttttaTGATTATGAGAAAACatGCTTTTG	catttagctggctgcctgct...87...ttatacacacag	gtgctcag
D.Yak	aggataag	gtaaatatctct...353...-----aattttggcctttatgattaTGGGAAAACatGCTTTTG	catttagcccagcactcag-...67...ttctacctttag	gtgctcag
	**** *	** * * *	** *****	** * * *

id=61012 gene=FBgn0052057 name=dpr10 segment=chr3L.10143602-10144075_-1 type=IN

Figure 298: CS=10.8



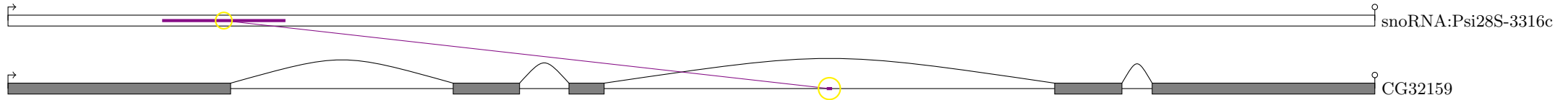
D.Mel	atTTTTT-----	cagcacct	AAAAGcGTTTTCTT	atcagcttgataaatgctct-----	..79...	ttgtaaacatcc	attataag
D.Sim	gagatgat-----	cagcacct	AAAAGcGTTTTCTT	AGCCtgataaatgctcttgaaaat-----	..72...	ttgtaaacatcc	attatacg
D.Sec	gagatgat-----	cagcacct	AAAAGcGTTTTCTT	AGCCtgataaatgctcttgaaaat-----	..72...	ttgtaaacatcc	attatacg
D.Ere	tagattgt-----	cagcacct	AAAAGcGTTTTCTT	gccagcctaataaatgctct-----	..79...	ttgtaaacatcc	tttataag
D.Ana	tttgTTTT-----	ttgcacct	AAAAGcGTTTTCTT	GGCCtggttacctgctcttgaaaat-----	..75...	gaataattgact	tttgagaa
D.Gri	gtttgtgtgaggg	tggcacct	AAAAGcGTTTTCTT	gtaggtcaactaatgctct-----	..90...	atttcagacca	agttaag
D.Moj	--taatat----ag	tggcacct	AAAAGcGTTTTCTT	gattgcttttaaacgcgcc-----	..90...	tgtaattaaag	atcacata
D.Vir	tatgat-----	aagcacct	AAAAGcGTTTTCTT	GATTgcttttaaacgcgcctg-----	..93...	tttataagatag	attatcag
D.Yak	tagacagt-----	cagcacc	GAAAAGcGTTTTCTT	AGCCTGATAaatgctcatgaaaatcgtag..	..56...	ttgtaaacatcc	tttataaa
	*		*****	* * ** *			

id=72181 gene=FBgn0082970 name=snoRNA:Psi28S-3316c segment=chr2R.17217632-17217764.1 type=EN

D.Mel	caagacaa	gtaagtgttgc...	799...	-----	tgaaaattttgcggttttgc-	AAGAAAACCTTTT	-----	ttgttctcctccctacgtt...	381...	aatccttgacag	gtccgacc
D.Sim	caagacaa	gtaagtgttgc...	799...	-----	acggtttctgaaaattttgc-	GGTTtGCAAAGAAAACCTTTT	-----	ttgatcacctccctacgtt...	412...	aatccttgacag	gtccgacg
D.Sec	caagacaa	gtaagtgttgc...	783...	-----	acggtttctgaaaattttgc-	GGTTtGCAAAGAAAACCTTTT	-----	ttgttccctccctacgtt...	409...	aatccttgacag	gtccgacg
D.Ere	caagacaa	gtaagtgttgc...	832...	-----	agaaaattttgcggttttaca-	AAGAAAACCTTTT	-----	ttgttgcctccctacgtt...	310...	actcaccacag	gtccgacg
D.Ana	caagacaa	gtaagtgttgc...	1168...	-----	acggtttctgaaaattttgc-	GGTTtGCAAAGAAAACCTTTT	-----	ttttctcctcctcattgccc...	658...	cccatttgacg	gtccacg
D.Gri	caaaacaa	gtaagtgttgc...	600...	-----	tgaaaattttgcggttttca-	AAGAAAACCTTTT	-----	tgcaaggcgcaacgttgt...	535...	aactatttgacg	gtccaccc
D.Moj	caagacaa	gtaagtgttgc...	514...	-----	tgaaaattttgcggttttca-	AAGAAAACCTTTT	-----	tgcaaggcgcaacgttgt...	1207...	catatttgacg	gtccacaa
D.Vir	caagacga	gtaagtgttgc...	568...	-----	ttctgaaaattttgcggttt-	TCAAAGAAAACCTTTT	-----	tgcaaggcgcaacgttgt...	888...	aactatttgacg	gtccaccc
D.Yak	caagacga	gtaagt-gctgca...	824...	-----	cttcttacggtttctgaaa-	TGTTGcGGTTtGCAAAGAAAACCTTTT	-----	ttttttttcatttctccta-	360...	taaccccacag	gtccgacg
	*** ** *	*****			*****	* * ** *	*****	*		***	* ** *

id=52150 gene=FBgn0002576 name=lz segment=chrX.9188053-9189309.1 type=IN

Figure 299: CS=12.42



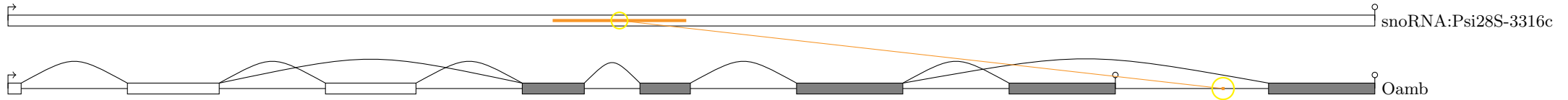
D. Mel	atthtttt-----	cagcacCTAAAaGCGTTTTC-----	ttatca---	gcttgataaatgct-----	... 81...---	ttgtaaacatcc	attataag
D. Sim	gagatgat-----	cagcacCTAAAaGCGTTTTC-----	ttgtta---	gcctgataaatgct-----	... 81...---	ttgtaaacatcc	attatacg
D. Sec	gagatgat-----	cagcacCTAAAaGCGTTTTC-----	ttgtta---	gcctgataaatgct-----	... 81...---	ttgtaaacatcc	attatacg
D. Ana	tttgtttt-----	ttgcacCTAAAaGCGTTTTC-----	ttgccg---	gcctgttacctgct-----	... 84...---	gaataattgact	tttgagaa
D. Gri	gtttgtgttgagg	tggcaccTAAAaGCGTTTTCttGTAG-----	-----	gtcaacttaatgctctgaa... 86...---	attccagacca	agtttaag	
D. Moj	--taatat---ag	tggcaccTAAAaGCGTTTTCtTGATTGCT-----	ttttaaacgcgcctgaaaat-----	... 83...---	tgtaattaaag	atcacata	
D. Per	aggtatta-----	tagcacCTAAAaGCGTTTTC-----	ctgcta---	gcccaataaatgct-----	... 89...---	gttgtaacacca	ttgatat-
D. Vir	tatgatat-----	aagcaccTAAAaGCGTTTTCtTGATTgcTTTTT-----	aaacgcgcctgaaaatcgta-----	... 84...---	tttataagatag	attatcag	
D. Wil	gagatcct-----	tagcaccTTAAAGCGTTTTC-----	ttgtcg---	gccaaattataaaa-----	... 539...acagtttgctcatct	tttag---	
		*****		*			

id=72181 gene=FBgn0082970 name=snoRNA:Psi28S-3316c segment=chr2R.17217632-1721764_1 type=EN

D. Mel	agaagaag	gtgagctcattc--... 1353...-----	ggaactgtaca--gcaaattat-----	GAAAATGCgTTTAg-----	ctggaaaacagaaaacaaga---	... 827...tttcttatttag	gccatcac
D. Sim	agaagaag	gtgagctcattc--... 1339...-----	ggaactgtaca--gcaaattat-----	GAAAATGCgTTTAg-----	ctggaaaacagaaaacaaga---	... 895...ttccctatttag	gccatcac
D. Sec	agaagaag	gtgagctcattc--... 1348...-----	ggaactgtaca--gcaaattat-----	GAAAATGCgTTTAg-----	ctggaaaacagaaaacaaga---	... 896...ttccctatttag	gccatcac
D. Ana	agaagaag	gtaag--ctgattt... 1142...-----	ggaactgtaca--gcaaattat-----	GAAAATGCgTTTAg-----	ctggaaaacaagagcggggc---	... 1079...ctacacattcag	gccatcac
D. Gri	agaagaag	gtaag--ttgcat... 646...-----	aactgtaccaacaagcaaa-----	TTATGAAAATGCgTTTA-----	agcagcaagtggtataaaat---	... 786...gctgttgacacag	gcaattac
D. Moj	agaagaag	gtaagtcttgcc--... 768...cttgccggaactgtacc--act-----	AGCAaaATTAGAAAATGCgTTTA-----	-----	aaaagctgacaacggactgc... 1624...ctgctcaacag	gcaattac	
D. Per	aaaagaag	gtaagaacatcc--... 1400...-----	ggaactgtaca--gcaaattat-----	GAAAATGCgTTTAg-----	ctggaaaacaagagcagagg---	... 715...ttgcatgatttag	gcaatcac
D. Vir	agaagaag	gtaag-tctgcca-... 933...-----	ggaactgtacc--agagcgcacAGGAAAATTAGAAAATGCgTTTA-----	agctagaaaactggcacag-----	... 592...tcaaaccaacag	gcaattac	
D. Wil	aaaagaag	gtaagtctcctc--... 848...-----	ggaactgtaca--gcaaattat-----	GAAAATGCgTTTAA-----	cagcagcagcagcaaaaaga---	... 750...tcgttttgccag	gccatcac
	* *****	** **	*****	*****		** ** ** **	

id=52468 gene=FBgn0052159 name=CG32159 segment=chr3L.16417419-16419676_-1 type=IN

Figure 300: CS=10.8



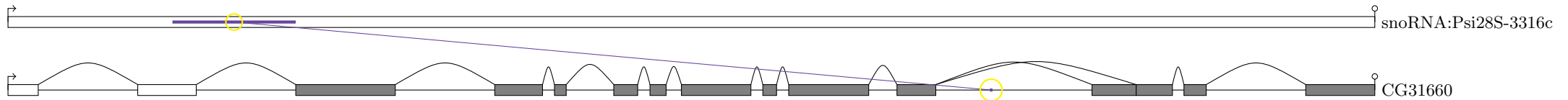
D. Mel	atTTTTT-----	cagcacctaaaagcgttttcttatcagcttgataaatgctccttga	AAATCGTAGATGTGTG	caatagcaatctctacaata---..40..	ttgtaaacatcc	attataag
D. Sim	gagatgat-----	cagcacctaaaagcgttttctttagcctgataaatgctccttga	AAATCGTAGATGTGTG	caatagcaatctctacaata---..40..	ttgtaaacatcc	attatacg
D. Sec	gagatgat-----	cagcacctaaaagcgttttctttagcctgataaatgctccttga	AAATCGTAGATGTGTG	caatagcaatctctacaata---..40..	ttgtaaacatcc	attatacg
D. Ere	tagattgt-----	cagcacctaaaagcgttttcttgcagcctaataaatgctccttga	AAATCGTAGTTGTGTGCAA	tagcaatctttacaatagca..37..	ttgtgaacattc	tttataag
D. Ana	tttgtttt-----	ttgcacctaaaagcgttttcttgcggcctgttacctgctccttga	AAATCGTAGATGTGTG	ccagaacaagcttccaaca---..43..	gaataattgact	tttgagaa
D. Gri	--gtttgtgttgagg	tggcacctaaaagcgttttctttaggtcaacttaaatgctccttga	AAATCGTAGTGTGTG	ccagattaaatct---aagttgc..51..	atccagacca	agtttaag
D. Moj	taatatag-----	tggcacctaaaagcgttttcttgattgcttttaaacgcgccttga	AAATCGTAGTGTGTG	ccagagcaattgctgcgggt---..51..	tgtaattaag	atcacata
D. Vir	tatgat-----	aagcacctaaaagcgttttcttgattgcttttaaacgcgccttga	AAATCGTAGTGTGTG	ctagagcaattgctgcgggt---..56..	tttataagatag	attatcag
D. Yak	tagacagt-----	cagcacctaaaagcgttttcttgcagcctgataaatgctccttga	AAATCGTAGATGTGTG	ccatagcaatcttacaata---..29..	ttgtaaacatcc	tttataaa
		*****	*****	*	*	**

id=72181 gene=FBgn0082970 name=snoRNA:Psi28S-3316c segment=chr2R.17217632-17217764.1 type=EN

D. Mel	aacaaaaac	aaaacgaaaacc...1043...	cgcgtttatggcgca--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...182...	ctccttgaccag	gttccaag
D. Sim	aacaaaaac	aaagcgaacc...1007...	cgcgtttatggcgca--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...181...	ctccttgaccag	gttccaag
D. Sec	aacaaaaac	aaagcgaacc...973...	cgcgtttatggcgca--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...173...	ctccttaaccat	attccaag
D. Ere	aacaaaaac	aaaacgaaaacc...1033...	cgcgtttatggcgca--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...181...	ttccttgaccag	gttccaag
D. Ana	aacaacaa	acaacaagtaac...776...	cgcgtttatggcgca--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...329...	ccaactcttag	gatccaag
D. Gri	aaataaat	aaaaaaataca...1379...	cgcttatgccaagatacatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...677...	gcattttgatag	gctccaag
D. Moj	aagagcaa	aaatcgatcgcc...817...	tgcttatgccaag--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...194...	ccattcaacag	gctccaag
D. Vir	aagagcaa	aaaacgagcgc...1065...	cgcgtttatgctaaag--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...169...	ccatttgccag	gctccaag
D. Yak	aacaaaaac	aaaacgaaaacc...1083...	cgcgtttatggcgca--acatt	TGCATAaTTACGcGTTT	aatttgctaaagtgcaggca...182...	ttccttgaccag	gttccaag
	** *	* * *	* ****	*****	*****	*	*****

id=21815 gene=FBgn0024944 name=Oamb segment=chr3R.16516830-16518135.-1 type=IN

Figure 301: CS=11.7



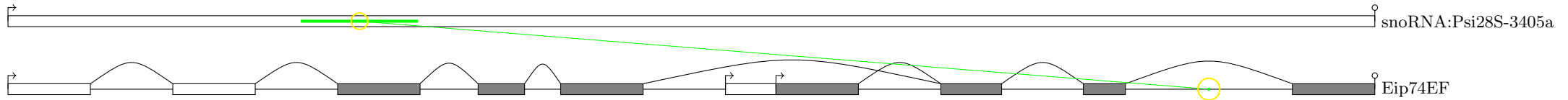
D.Mel	atthtttt-----	cagcaccTAAAAGCGTTTTCTTATCAGcTTGATA-----	aatgctcttgaaaatcgtag...67...---	ttgtaaacatcc	attataag
D.Sim	gagatgat-----	cagcaccTAAAAGCGTTTTCTTgtTAGCCTGAT-----	aatgctcttgaaaatcgta...68...---	ttgtaaacatcc	attatacg
D.Sec	gagatgat-----	cagcaccTAAAAGCGTTTTCTTgtTAGCCTGAT-----	aatgctcttgaaaatcgta...68...---	ttgtaaacatcc	attatacg
D.Ere	tagattgt-----	cagcaccCAAAGCGTTTTCTTgcCAGCCTAAT-----	aatgctcttgaaaatcgta...68...---	ttgtaaacatcc	tttataag
D.Ana	tttgtttt-----	ttgcaccTAAAAGCGTTTTCTTGC CGGC-----	ctgttacgtcttgaaaa-----	gaataattgact	tttgagaa
D.Gri	gtttgtgttgagg	ttgcaccTAAAAGCGTTTTCTTGTAGG-----	tcaactaatgctcttgaaa-----	attccagaccaagt	ttaag---
D.Moj	--taat-----ag	tggcaccTAAAAGCGTTTTCTTGTATTG-----	cttttaaacgcgcctgaaa-----	tgtaattaaag	atcacata
D.Wil	gagatcct-----	tagcacctTAAAGCGTTTTCTTgtCGGCCAAattataaaatgctctgaaa-----	aaatgctcttgaaaatcgta...528...acagtttgctcatct	ttgtaaacatcc	tttag---
D.Yak	tagacagt-----	cagcaccgAAAAGCGTTTTCTTgcCAGCCTGAT-----	aatgctcttgaaaatcgta...57...---	ttgtaaacatcc	tttataaa
	*	**** * * * * *	** * * *		*

id=72181 gene=FBgn0082970 name=snoRNA:Psi28S-3316c segment=chr2R.17217632-17217764.1 type=EN

D.Mel	acaagcag	gtaaccgatttg...217...tcatcgaaatgcgtacttg--TATTGacaTTGGTtGAGGAAACGaTTTTTG	ttaataac-tagccaaaca---...591...gttcatttccag	caccccca
D.Sim	acaagcag	gtaaccgatttg...216...-----aatccgtacttggtattgac--ATTGGTTGAGGAAACGaTTTTTG	ttaataac-tagcctaaacac---...579...attcatttccag	caccccca
D.Sec	acaagcag	gtaaccgatttg...217...-----aatccgtacttggtattgac--ATTGGTTGAGGAAACGaTTTTTG	ttaataac-tagcctaaacac---...579...attcatttccag	caccccca
D.Ere	acaagcag	gtaaccgatttg...208...-----aatccgtacttggtattgac--ATTGGTTGAGGAAACGaTTTTTG	ttaataac-tagccaacacaa---...573...attcatttccag	caccctca
D.Ana	acaagcag	gtaaccgatttg...200...-----tttcgatttggtattttaa-GTTGatTGAGGAAACGaTTTTTG	ttactaac-caatcaccacaa---...644...ttacatttccag	caccacca
D.Gri	acaagcag	gtaacaaaaatt...292...-----ttgtatttggtattcacatTTTggtTGAGGAAACGaTTTTTG	taaacac---atcaaaaaaat...682...tctcatttacag	cacaacaa
D.Moj	acaagcag	gtaacacaatt...337...-----ttgtatttggtatttaacatt-TGGTTGAGGAAACGaTTTTTG	taaaaaa---atttaataaat...721...tctcatttacag	caccacaa
D.Wil	acaagcag	gtaaaatgaaat...301...-----aaaacatgtac----atttaataTTGGTCGAGGAAACGaTTTTTG	ttgagcttttgcataaacg---...660...atatttttccag	cacaataa
D.Yak	acaagcag	gtaaccatttc...217...-----tatccgtatttggtattgac--ATTGGTTGAGGAAACGaTTTTTG	gttaataactagccaacac---...584...attcatttccag	caccccca
	*****	**** * * * * *	** * * * * *	**** * * *

id=100183 gene=FBgn0051660 name=CG31660 segment=chr2L.4872694-4873595.1 type=IN

Figure 302: CS=10.8



```

D.Mel --acaatat-a tcc---acagtcccagctccgcataGCAATGTTTCGATGtgcttctgctggcgtttgtga...73...---tatggcacacta tagcttga
D.Sim --accatat-a tcc---acagtcccagctccgcataGCAATGTTTGGATGtgctcgtgctggcggtttgtga...73...---tatggcacaata tagcttga
D.Sec --accatat-a tcc---acagtcccagctccgcataGCAATGTTTCGATGtgctcatgctggcggtttgtga...73...---tatggcacacta tagcttga
D.Ere --ataatat-a tcc---acagtcccagctccgcataGCAATGTTTCGATGtgctccttgctggcggtttgtga...73...---tttggcacacta tagcttga
D.Gri --caatttga tag---acagtcccagctccgcataGCAATGTTTGGATGtgctctgtgctggcggtttcatg...77...---tgcgccacaaag ttaaatga
D.Moj --tcaatat-a tta---acagtcccagctccgcataGCAATGTTTGGATGtgctctgtgctggcggtttcatg...72...---tatgtgccacaa ttggtcga
D.Vir tgtacatat-a ctatggacagctcccagctccgcataGCAATGTTTGGATGtgctctgtgctggcggtttcatg...72...---tatgttccacaa ttggtgag
D.Wil --actttag-a ttccacacagctcccagctccgcataGCAATGTTTGGATGtgctctatgctggcggtttttg...92...ttatattttcgttaa ctagt---
D.Yak ---tggtgcga tcc---acagtcccagctccgcataGCAATGTTTCGATGtgctcgtgctggcggtttgtga...72...---tttggcacacta tagcttga
      * *                *****                *****                *
  
```

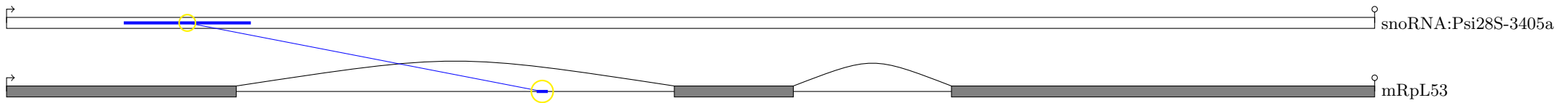
id=112439 gene=FBgn0082960 name=snoRNA:Psi28S-3405a segment=chr3R.24427251.24427390.1 type=EN

```

D.Mel tgttgggg gtgagtatcgag...613...tgctgtat---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...1156...-ttgttcttcag tgcccgcac
D.Sim tgttgggg gtgagtatcgag...569...tgccgtat---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...1270...-ttgttcttcag tgcctgac
D.Sec tgttgggg gtgagtatcgag...581...tgctgtat---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...1274...-ttgttcttacag tgcctgac
D.Ere tgttgggg gtgagtatcgag...628...tgctgtat---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...1143...-ttgttcttcag tgcccgcac
D.Gri tgttgggg gtgagtataatc...355...cgctgtgt---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...758...-ttctcgttacag tgcccgcac
D.Moj tgttgggg gtgagtataatc...244...cgctgtgt---aaaatctgtggtCATCGAcACATTGCcttttgcgcaa-tgtgaagg...711...-cccttctatag tgcccgcac
D.Vir tgttgggg gtgagtataatc...295...cgctgtgt---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...737...gctcctctt-cag tgcccgcac
D.Wil tgttgggg gtaagtacataa...596...---tgtgtattaaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...958...-tttttcttcag taccggat
D.Yak tgttgggg gtgagtatcgag...609...tgctgtat---aaaatctgtggtCATCGAcACATTGCcttttgcgcaaattgtgaagg...1261...-ttgttcttcag tgcccgcac
***** * ** ****                ** *                *****                * ** * ** **
  
```

id=61214 gene=FBgn0000567 name=Eip74EF segment=chr3L.17555859.17557705.-1 type=IN

Figure 303: CS=12.42



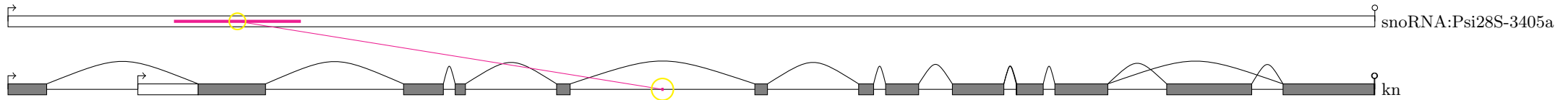
D.Mel	acaatata	tcc-----aCAGTccCAGCTCCGcatagcaatgttcgatgtgc-----...90...tatggcacacta	tagcttga
D.Sim	accatata	tcc-----aCAGTccCAGCTCCGcatagcaatgtttgatgtgc-----...90...tatggcacata	tagcttga
D.Sec	accatata	tcc-----aCAGTccCAGCTCCGcatagcaatgttcgatgtgc-----...90...tatggcacacta	tagcttga
D.Ere	ataatata	tcc-----aCAGTccCAGCTCCGcatagcaatgttcgatgtgc-----...90...tttggcacacta	tagcttga
D.Ana	ccctcgcc	tcc-----aCAGTccCAGCTCCGcatagcaatgttcgatgtgc-----...91...cgctatatttga	ctatttgg
D.Gri	caatttga	tag-----aCAGTccCAGCTCCGCATAgcaatgtttgatgtgtctgt...90...tgcgccacaaag	ttaatga
D.Moj	tcaatata	tta-----aCAGTccCAGCTCCGCATAgcaatgtttgatgtgtctgt...85...tatgtgccacaa	ttggtcga
D.Vir	tgtacata	tactatggaCAGTccCAGCTCCGCATAgcaatgtttgatgtgtctgt...85...tatgttccacaa	ttggtgag
D.Wil	actttaga	ttccac--aCAGTccCAGCTCCGCATAgcaatgtttgatgtgtctat...105...ttatattttcgt	taactagt
D.Yak	tggtgcga	tcc-----aCAGTccCAGCTCCGcatagcaatgttcgatgtgc-----...89...tttggcacacta	tagcttga
	*	*****	

id=112439 gene=FBgn0082960 name=snoRNA:Psi28S-3405a segment=chr3R.24427251.24427390.1 type=EN

D.Mel	tccacacg	gtgagtcgga...283...-----tcagcggcagcgtgtgcggaTGGAGCTGaGCTGgcccaccgggagccagctca---...111...---ttctaatttcag	ggaattcc
D.Sim	tccacacg	gtgagtcgga...282...-----tcagcggcagcgtgtgcggaTGGAGCTGaGCTGgcccaccgggagccagctca---...111...---ttctaatttcag	ggaattcc
D.Sec	tccacacg	gtgagtcgga...282...-----tcagcggcagcgtgtgcggaTGGAGCTGaGCTGgcccaccgggagccagctca---...96...---ttctaatttcag	ggaattcc
D.Ere	tccacacg	gtgagtcgga...273...-----tcagcggcaacgtgtgcggaTGGAGCTGaGCTGgcccaccaggagccagctca---...105...---ttcgaatttcag	agaattcc
D.Ana	tccactcg	gtaagtatttg...275...-----gtcaatggcaacgtgtgcggaGTGGAGCTGaGCTGgccccccgaggagccagctcg---...110...---tctcattttag	cgaattcc
D.Gri	tccacacg	gtaaatgaagaa...346...tggaaatgtcaacggcagcg-----TATGGAGCTGaGCTGggcccccc---gccagctcccgc...294...---ttttcttttcag	agaatttc
D.Moj	gccacacg	gtaagcgagaag...336...atctgggggaaacggtagcg-----TATGGAGCTGGGCTGgtccgcc---gccagctcccgc...520...---cttacttcacag	agaatttc
D.Vir	tccacacg	gttagtatgtta...340...tgaaaatgtcaacggcagcg-----TATGGAGCTGaGCTGgcccccg---gccagctcccgc...206...ggctcttca---tag	cgaatttc
D.Wil	tccacaag	gtaaatctattg...372...-----tgtcaacggcagcgtatgcgTATGGAGCTGaGCTGgcccaccagggtccagctcc---...102...---tttaccattacag	agaatttc
D.Yak	tccacacg	gtgagtcgga...272...-----tcagcggcagcgtgtgcggaTGGAGCTGaGCTGgcccaccaggagccagctca---...105...---tttaatttcag	agaattcc
	**** *	*****	** ***** *

id=123556 gene=FBgn0050481 name=mRpl53 segment=chr2R.9841951.9842421.1 type=IN

Figure 304: CS=12



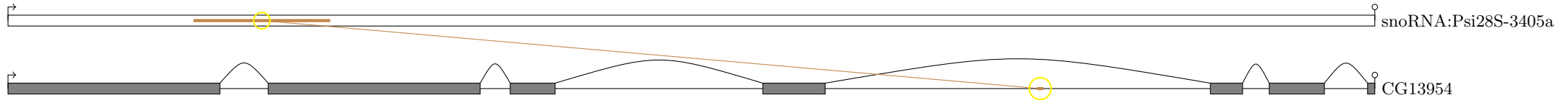
D.Mel	----acaatat-a	tccaca--gtc CCAGcTCCGcATAG caatgttcgatgtgcttgtg...85...tatggcacacta	tagcttga
D.Sim	----accatat-a	tccaca--gtc CCAGcTCCGcATAG caatgtttgatgtgctcgtg...85...tatggcacacata	tagcttga
D.Sec	----accatat-a	tccaca--gtc CCAGcTCCGcATAG caatgttcgatgtgctcatg...85...tatggcacacta	tagcttga
D.Ere	----ataatat-a	tccaca--gtc CCAGcTCCGcATAG caatgttcgatgtgctcctg...85...tttggcacacta	tagcttga
D.Ana	----ccctcgc-c	tccaca--gtc CCAGcTCCGcATAG caatgctcgatgtgctcgtg...87...cgctatatttga	ctatattgg
D.Gri	----caatttga	tagaca--gtc CCAGcTCCGcATAG caatgtttgatgtgctcgtg...89...tgccacacaaag	ttaaatga
D.Moj	----tcaatat-a	ttaaca--gtc CCAGcTCCGcATAG caatgtttgatgtgctcgtg...84...tatgtgccacaa	ttggtcga
D.Vir	tgtacatatacta	tggaca--gtc CCAGcTCCGcATAG caatgtttgatgtgctcgtg...84...tatgttcacaa	ttggtgag
D.Wil	----actttgat	tccacacagtc CCAGcTCCGcATAG caatgtttgatgtgctatg...104...ttatattttcgt	taactagt
D.Yak	----tggtgcga	tccaca--gtc CCAGcTCCGcATAG caatgttcgatgtgctcgtg...84...tttggcacacta	tagcttga
		* ** * ***** * ***** **	

id=112439 gene=FBgn0082960 name=snoRNA:Psi28S-3405a segment=chr3R.24427251.24427390.1 type=EN

D.Mel	atgtgcag	gtgagtgcgctt...648...gctgggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...810...tttattttcag	cgctgct
D.Sim	atgtgcag	gtgagtgcttat...652...gctgggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...836...tttattttcag	cgctgct
D.Sec	atgtgcag	gtgagtgcttat...654...gctgggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...824...tttattttcag	cgctgct
D.Ere	atgtgcag	gtgagtgcttat...642...gctgggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...979...gtttccttcag	cgctgct
D.Ana	atgtgcag	gtaagtcttat...609...tgctggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...599...tatccattcag	cgctgct
D.Gri	atgtgcag	gtgagtttaac...1358...cgctggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...983...atctaactcag	cgctgct
D.Moj	atgtgcag	gtgagtgaatcg...1276...gctgggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...1328...ttttacctcag	cgctgct
D.Vir	atgtgcag	gtgagttcg...1061...cgctggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...1068...ttttacctcag	cgctgct
D.Wil	atgtgcag	gtgagttccca...767...tgccggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...1583...tttatttcag	cgctgct
D.Yak	atgtgcag	gtgagtgcttat...641...gctgggccggccatctttta TTAT tt CGGATTGG caccagttttatgtttg...776...tttctcttcag	cgctgct
	*****	** ** * ***** * ***** * * ** *****	*****

id=3031 gene=FBgn0001319 name=kn segment=chr2R.10673416.10674951.-1 type=IN

Figure 305: CS=10.8



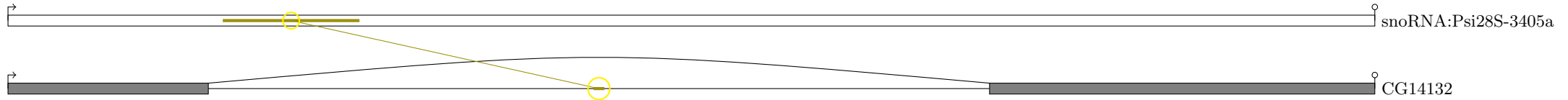
D. Mel	acaatat-a	tcc--acagtcccAGCTCCGCATaGCAA	tgttcgatgtgcttgtgcgg...82...--tatggcacacta	tagcttga
D. Sim	accatat-a	tcc--acagtcccAGCTCCGCATaGCAA	tgtttgatgtgctcgtgcgg...82...--tatggcacaata	tagcttga
D. Sec	accatat-a	tcc--acagtcccAGCTCCGCATaGCAA	tgttcgatgtgctcatgcgg...82...--tatggcacacta	tagcttga
D. Ere	ataatat-a	tcc--acagtcccAGCTCCGCATaGCAA	tgttcgatgtgctcttgcgg...82...--tttggcacacta	tagcttga
D. Ana	ccctcgc-c	tcc--acagtcccAGCTCCGCATaGCAA	tgtcctgatgtgctcgtgcgg...84...--cgctatattga	ctatttgg
D. Gri	-caatttga	tag--acagtcccAGCTCCGCATaGCAA	tgtttgatgtgctcgtgcgg...86...--tgcccacaaag	ttaaatga
D. Moj	tcaatat-a	tta--acagtcccAGCTCCGCATaGCAA	tgtttgatgtgctcgtgcgg...81...tatgtgccacaa-	ttggtcga
D. Wil	actttgat	tccacacagtcccAGCTCCGCATaGCAA	tgtttgatgtgctcatgcgg...101...--ttatatttctg	taactagt
D. Yak	-tggtgcga	tcc--acagtcccAGCTCCGCATaGCAA	tgttcgatgtgctcgtgcgg...81...--tttggcacacta	tagcttga
		* ***** * ***** * ***** *		*

id=112439 gene=FBgn0082960 name=snoRNA:Psi28S-3405a segment=chr3R.24427251.24427390.1 type=EN

D. Mel	aagcatcg	gtgagtggccac-...598...taggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaaa...369...tgaattcacag	acatcgcc
D. Sim	aagcatcg	gtgagtggccac-...590...taggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaaa...368...ttcaattcatag	acatcgcc
D. Sec	aagcatcg	gtgagtggccac-...606...taggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaaa...368...tcaattcacag	acatcgcc
D. Ere	aagcatcg	gtgagtggccac-...589...taggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgtaaaacccaacggaaa...400...tccacttcacag	acatcgcc
D. Ana	aagcatcg	gtgagtgccttt-...741...caggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaaa...298...tatattgacag	ccatcgcc
D. Gri	aagcatcg	gtgagtgcgata-...848...acggggaaattgtggcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaa-...380...gtctattcacag	gcatcgcc
D. Moj	aagcatcg	gtaagtcccat-...1108...cggggaaattgtgctcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaa-...668...tttccatttcag	acatcgcc
D. Wil	aagcatcg	gtaag-cacaatg...1821...aaggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgcaaaacccaacggaaa...1964...cttcaaattaag	gcatcgcc
D. Yak	aagcatcg	gtgagtggccac-...589...taggggaaattgcggcagct	TTGTaATGCGGAGTT	-ttgtaaaacccaacggaaa...399...cacaattcacag	acatcgcc
	*****	** ** *	***** ** * *****	** ** *	** ***** *

id=46195 gene=FBgn0033405 name=CG13954 segment=chr2R.5258023.5259069.-1 type=IN

Figure 306: CS=10.8



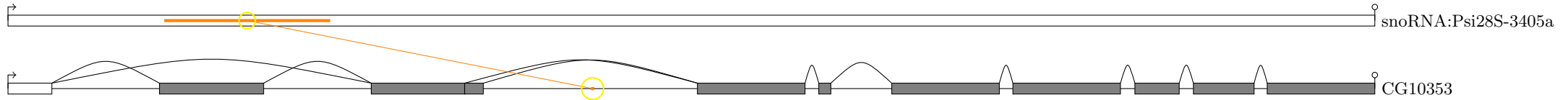
D.Mel	--acaatat-a	tc---cacagtcccagc	TCCGCATAGCa	ATGTT	tcgatgtgctt	tgccggcgt...79...	---tatggcacacta	tagcttga
D.Sim	--accatat-a	tc---cacagtcccagc	TCCGCATAGCa	ATGTT	ttgatgtgctc	gtgcccgt...79...	---tatggcacaata	tagcttga
D.Sec	--accatat-a	tc---cacagtcccagc	TCCGCATAGCa	ATGTT	tcgatgtgctc	atgcccgt...79...	---tatggcacacta	tagcttga
D.Ere	--ataatat-a	tc---cacagtcccagc	TCCGCATAGCa	ATGTT	tcgatgtgctc	tgtgcccgt...79...	---tttggcacacta	tagcttga
D.Gri	--caatttga	ta---gacagtcccagc	TCCGCATAGCa	ATGTT	ttgatgtgctc	gtgcccgt...83...	---tgccgacaaaag	ttaaatga
D.Moj	--tcaatat-a	tt---aacagtcccagc	TCCGCATAGCa	ATGTT	ttgatgtgctc	gtgcccgt...78...	---tatgtgccacaa	ttggtcga
D.Vir	tgtacatat-a	ctatggacagtcccagc	TCCGCATAGCa	ATGTT	ttgatgtgctc	gtgcccgt...78...	---tatgttccacaa	ttggtgag
D.Wil	--acttttag-a	ttccacacagtcccagc	TCCGCATAGCa	ATGTT	ttgatgtgctc	atgcccgt...98...	ttatattttcgttaa	ctagt---
D.Yak	---tggtgcga	tc---cacagtcccagc	TCCGCATAGCa	ATGTT	tcgatgtgctc	gtgcccgt...78...	---tttggcacacta	tagcttga
		*	*			*****	*	

id=112439 gene=FBgn0082960 name=snoRNA:Psi28S-3405a segment=chr3R.24427251.24427390.1 type=EN

D.Mel	ccatcctg	gtaaggatttat...881...	-----ttcaaacgctcgactaattt	GCATc	GCTATGCGGA	Att--aagttagaaaactt	atc...1203...	tatttttgcag	cccatcct
D.Sim	ccatcctg	gtaaggatttat...884...	-----ttcaaacgctcgactaattt	GCATc	GCTATGCGGA	Att--aagttagaaaactt	atc...1216...	tatttctgcag	cccatcct
D.Sec	ccatcctg	gtaaggatttat...853...	-----ttcaaacgctcgactaattt	GCATc	GCTATGCGGA	Att--aagttagaaaactt	atc...1447...	tatttctgcag	cccatcct
D.Ere	ccatccag	gtaaggatttct...924...	-----ttcaaacgctcgactaattt	GCATc	GCTATGCGGA	Att--aagttagaaaactt	atc...1205...	tctgctttacag	cccatcct
D.Gri	caatcctg	gtagtattcca...719...	-----aagatgctcgtgactaattt	GCATa	GCTATGCGGA	Attgtattcaaaaagtgtc	g...721...	ttcaacttgcag	cgcatccc
D.Moj	tcacatcctg	gtagtatttct...682...	caaatgtgaagcg----ctaattt	GCATa	GCTATGCGGA	Attgtgta--acactaatgtc	gcc...637...	tctttattatag	ctcatccc
D.Vir	ccatcctg	gtagtatttct...735...	caaatgctgctgactaattt	GCATa	GCTATGCGGA	Attgtattcaaaaagtgtc	g...721...	tttacttgcag	cgcatccc
D.Wil	acatccag	gtaagcataaca...1119...	tttagtttttaactaattt	GCATc	GCTATGCGGA	Attcggggcttagaaaatt	a...988...	cctctcttttag	cacatccc
D.Yak	ccatcctg	gtaaggatttat...925...	-----ttcaaacgctcgactaattt	GCATc	GCTATGCGGA	Att--aagttagaaaactt	atc...1176...	tctgttttgcag	cacatcct
		**** *	** ** *	*	*****	*****	*	*	** ** *

id=50138 gene=FBgn0040817 name=CG14132 segment=chr3L.11705960.11708122.-1 type=IN

Figure 307: CS=10.8



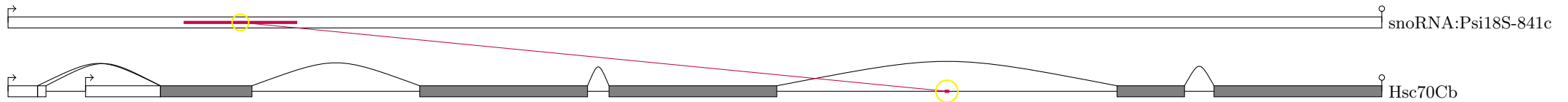
D.Mel	--acaatat-a	tc---cacagt	CCCAGc	TCCGCAt	AGCAA	tgttcgatgtgctt	gtgcgg----	...82...	---tatggcacacta	tagcttga
D.Sim	--accatat-a	tc---cacagt	CCCAGc	TCCGCAt	AGCAA	gtttgatgtgctc	gtgcgg----	...82...	---tatggcacaata	tagcttga
D.Sec	--accatat-a	tc---cacagt	CCCAGc	TCCGCAt	AGCAA	gtttcgatgtgct	catgcgg----	...82...	---tatggcacacta	tagcttga
D.Ere	--ataatat-a	tc---cacagt	CCCAGc	TCCGCAt	AGCAA	gtttcgatgtgct	cctgcgg----	...82...	---tttggcacacta	tagcttga
D.Gri	---caattga	ta---gacagt	CCCAGc	TCCGCAt	AGCAATGTT	tgatgtgtctgtg	cggcggt...	82...	---tgcgccacaaag	ttaatga
D.Moj	---tcaatat-a	tt---aacagt	CCCAGc	TCCGCAt	AGCAATGTT	tgatgtgtctgtg	cggcggt...	77...	---tatgtgccacaa	ttggtcga
D.Vir	tgtacatat-a	ctatggacagt	CCCAGc	TCCGCAt	AGCAATGTT	tgatgtgtctgtg	cggcggt...	77...	---tatgttcacaa	ttggtgag
D.Wil	--actttag-a	ttccacacagt	CCCAGc	TCCGCAt	AGCAA	gtttgatgtgct	atgcgg----	...101...	ttatattttcgtaa	ctagt---
D.Yak	---tggtcga	tc---cacagt	CCCAGc	TCCGCAt	AGCAA	gtttcgatgtgct	cgtgcgg----	...81...	---tttggcacacta	tagcttga
		*	*	*****					*	

id=112439 gene=FBgn0082960 name=snoRNA:Psi28S-3405a segment=chr3R.24427251.24427390.1 type=EN

D.Mel	aatcaagg	gtaaacaacgat...	663...	atctcttatttcctatagt	-----	TTGCTTGCGGGa	TTGGG	tatgaacacttaatgcgaat...	454...	gaatcctgcag	acatacag
D.Sim	aatcaagg	gtaaacaacgac...	612...	atctcttatttcctatagt	-----	TTGCTTGCGGGa	TTGGG	tatgaacacttaatgcgaat...	458...	gaatcctgcag	acatacag
D.Sec	aatcaagg	gtaaacaacgac...	778...	atctcttatttcctatagt	-----	TTGCTTGCGGGa	TTGGG	tatgaacacttaatgcgaat...	458...	gaatcctgcag	acatacag
D.Ere	aatcaagg	gtaaacaacgac...	790...	atctcttatttcctatagt	-----	TTGCTTGCGGGa	TTGGG	tatgaacacttaatgcgaat...	418...	ggcatctgcag	acgtacag
D.Gri	aattgagg	gtaaacaaccaa...	536...	ctcttttctctcttttttc	AATAg	TTGCTTGCGGGa	TTGGG	aatggcaatttttttagc...	749...	ctttgccgag	acgtatcg
D.Moj	aatcgagg	gtaaacaacaat...	549...	tttttttctctcttttttc	AATAg	TTGCTTGCGGGa	TTGGG	aatggcaatttttttagc...	918...	ctccctgacag	acgtatcg
D.Vir	aattgagg	gtaaacaaccaa...	443...	ctcttttctctcttttttc	AATAg	TTGCTTGCGGGa	TTGGG	aatggcaatttttttagc...	919...	ctttgccgag	acgtatcg
D.Wil	aattgagg	gtaaacaaccaa...	539...	cttatttctttagctatagt	-----	TTGCTTGCGGGa	TTGGG	aatggcaatttttttagc...	919...	gtgtgatatag	acatatcg
D.Yak	aatcaagg	gtaaacaacgac...	865...	atctcttatttcctatagt	-----	TTGCTTGCGGGa	TTGGG	tatgaacacttaatgcgaat...	565...	gtgattctgcag	acatacag
	*** **	*****		* *	*	*****	*****	** ** *		**	** ** *

id=119249 gene=FBgn0030349 name=CG10353 segment=chrX.11775936.11777133.-1 type=IN

Figure 308: CS=15.12



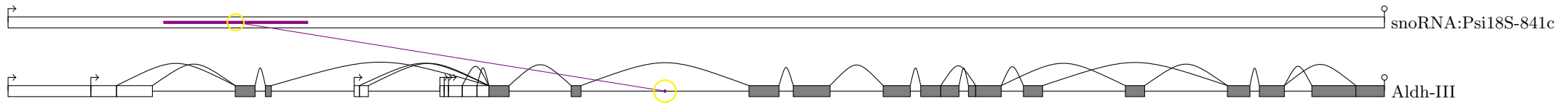
D. Mel	-----aattctta	ggcaaatgcACTCTGTGTCACATT	--gaat----	tgaatgtgaagacaat---	. . .77...	cattttact--a	ttattaat
D. Sim	-----aatctta	agcaaatgcACTCTGTGTCACATT	--gaacttaactacatgtgaag	-----	. . .82...	cattttact--a	tttttgat
D. Sec	-----aatctta	ggcaaatgcACTCTGTGTCACATT	--gaacttaactacatgtgaag	-----	. . .82...	cattttact--a	tttttga
D. Ere	-----aattctta	ggcaaatgcACTCTGTGTCACATT	--gaatttgactacatgtgaaa	-----	. . .82...	catttaact--a	ttataaat
D. Gri	gatcccaattacaccttcc	tgcaagcgcACTCTGTGTCACATT	--gaat---	cctcatgtgaagacaa---	. . .85...	-ctttactcgc	ttatagat
D. Moj	-----tcttttta	tgcaagcgcACTCTGTGTCACATT	--gaatt-	atctcatgtgatgac-----	. . .85...	cgctttact--a	cttttatt
D. Per	-----ccatttta	ggcaaatgcACTCTGTGTCACATT	gaaacact-	gcctcatgtgat-----	. . .90...	-tcgtacaccta	gtaatagt
D. Pse	-----ccaattta	ggcaaatgcACTCTGTGTCACATT	gaaacaca-	gcctcatgtgat-----	. . .90...	-tcgtacaccta	gtaataat
D. Vir	-----tccttccc	tgcaagtgcACTCTGTGTCACATT	gaTTTG	----ccacatgtgatgacaatttg	. . .74...	cgccttacactc-	ttttaa-
D. Wil	-----aattcctt	agcaagcgcACTCTGTGTCACATT	--gattg-	acctcatgtgaatac-----	. . .79...	tctacgacagc-	taattgaa
D. Yak	-----aattctta	ggcaaatgcACTCTGTGTCAC	---aatgaatttaactacatgta	-----	. . .35...	catttgact--a	ttataaat
		***	*****	***		***	

id=45596 gene=FBgn0083017 name=snoRNA:Psi18S-841c segment=chr2R.17218088.17218220.1 type=EN

D. Mel	agcaagag	gtgagtcaacca...	861...	----ctcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	623...	tttgctgccag	ggcgctga
D. Sim	agcaagag	gtgagtcaacca...	818...	----ctcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	634...	tttgctgccag	ggcgctga
D. Sec	agcaagag	gtgagtcaacca...	818...	----ctcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	627...	tttgctgccag	ggcgctga
D. Ere	agcaagag	gtgagtcaacca...	787...	----ctcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	618...	tttgctgccag	ggcgctga
D. Gri	aaccggag	gtaagtctcaaa...	841...	----ctcatcacctggcggacaag	GGTGGGCACAcGGGT	caagggctggtttggttcgg...	631...	tgtctattgtag	ggcaccca
D. Moj	aacctgag	gttagtcaatct...	771...	----ctcatcacctggcggacaag	GGTGGGCACAcGGGT	caagggctggtttggttcgg...	619...	tttcacgcacag	ggcaatga
D. Per	agcaggag	gtgagtgtgcca...	1513...	----ctcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	768...	tttggtgcttag	ggctccga
D. Pse	agcaggag	gtgagtgtgcca...	1508...	----ctcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	768...	tttggtgcttag	ggctccga
D. Vir	aaccggag	gtaagtctaccc...	758...	cagcctcatcacctggcggaca	CAAGGGTGGGCACAcGGGT	caagggctggtttggttcgg...	635...	tttggtgctacag	ggcaatga
D. Wil	aacaggag	gtgagttctcgt...	1023...	gtcatcacctggcggacaag	GGTGGGCACAgcGGGT	caagggctggtttggttcgg...	687...	ctcttctgtag	ggcaccca
D. Yak	agcaagag	gtgagtcaacca...	836...	----tcatcacctggcggacaag	GTGGGCACAgcGGGT	caagggctggtttggttcgg...	623...	tttgctgccag	ggctctga
	* * *	** **		*****	*****	*****		** **	** **

id=118446 gene=FBgn0026418 name=Hsc70Cb segment=chr3L.14033695.14035258.1 type=IN

Figure 309: CS=10.56



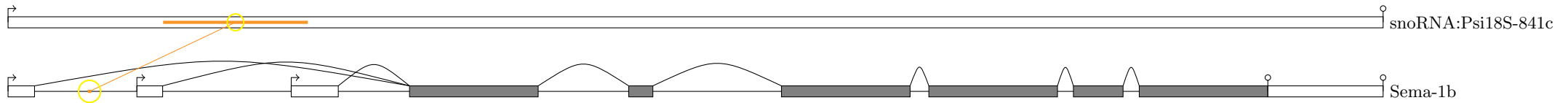
D. Mel	-----aattctta	ggcaaa	TGCACTCTGT	TCACATT	-gaa-----	ttgaatgtgaagacaat...77...	cattttacacta	ttattaat
D. Sim	-----aatctta	agcaaa	TGCACTCTGT	TCACATT	-gaacttaactacatgtgaag----	82...	cattttacacta	tttttgat
D. Sec	-----aaatctta	ggcaaa	TGCACTCTGT	TCACATT	-gaacttaactacatgtgaag----	82...	cattttacacta	tttttga
D. Ere	-----aattctta	ggcaaa	TGCACTCTGT	TCACATT	-gaatttgactacatgtgaaa-----	82...	catttaacacta	ttataaat
D. Ana	-----atagttat	ggcaga	TGCACTCTGT	gaCACAC	-agaat---ccacttgtgattac----	80...	tatcttacacta	ttttaagt
D. Gri	gatccccaattacaccttc	tgcaag	CGCACTCTGT	TCACATTGA	aat-----cctcatgtgaagacaat...	84...	ctttacactcgc	ttatagat
D. Moj	-----tcttttta	tgcaag	CGCACTCTGT	TCACATTGA	----attatctcatgtgatgacaa--..	83...	cgctttacatta	cttttatt
D. Per	-----ccatttta	ggcaaa	TGCACTCTGT	TCACATT	-gaaacactgcctcatgtgat-----	90...	tcgtacatccta	gtaatagt
D. Pse	-----ccaattta	ggcaaa	TGCACTCTGT	TCACATT	-gaaacacagcctcatgtgat-----	90...	tcgtacatccta	gtaataat
D. Vir	-----tccttccc	tgcaag	TGCACTCTGT	TCACATT	--gatttgccacatgtgatgac----	80...	cgcttacactc	cttttaa
D. Yak	-----aattctta	ggcaaa	TGCACTCTGT	TCACA	--atgaatttaactacatgtat-----	34...	catttgacacta	ttataaat
		***	*****	***		***	*	*

id=45596 gene=FBgn0083017 name=snoRNA:Psi18S-841c segment=chr2R.17218088.17218220.1 type=EN

D. Mel	agctttcg	gtgagtttactt...1134...	tctcg-gta--ttttgagtgcga--	AGTGTGA	ACGGA	GTGCG	gaggaatctcagccaaggc...1188...	gctcttttt--cag	acgcaagc		
D. Sim	agctttcg	gtgagtttactt...1157...	tctcg-gta--ttttgagtgcga--	AGTGTGA	ACGGA	GTGCG	gaagaatctcagccaaggc...1140...	gctcttttt--cag	acgcaagc		
D. Sec	agctttcg	gtgagtttactt...1170...	tctcg-gta--ttttgagtgcga--	AGTGTGA	ACGGA	GTGCG	gaagaatctcagccaaggc...1128...	gctcttttt--cag	acgcaagc		
D. Ere	agctttcg	gtgagttcact...1125...	tctcg-gta--ttttgagtgcga--	AGTGTGA	ACGGA	GTGCG	gaagaatctcagccaaggc...1165...	gctcttttt--cag	acgcaagc		
D. Ana	agctttcg	gtaagtttaagc...586...	cg-atagttttgagtgcgaa--	GTGTGA	ACGGA	GTGCG	gaagaatcttagccaaggc...718...	ttttcttgg--cag	acgcaagc		
D. Gri	agctttcg	gtgagtaacgt...805...	atgtgatgtatcttaagca--	CAATg	TGTGA	ACGGA	GTGCG	gacgtatctttggccccct...1227...	--gttcattctag	acgcaaac	
D. Moj	agctttcg	gtaagtaactgt...1267...	gtata-tgggctttttgaagc	TCAA	ag	TGTGA	ACGGA	GTGCG	gacgttcgatatacataac...2001...	ccgcaaat--tag	acgcaaac
D. Per	agctttcg	gtaagttgaatc...626...	ccg-atagttttgatttgcca--	AGTGTGA	ACGGA	GTGCG	gaagaatctgcgccaaggc...762...	--tcgcattcacag	tcgcaagc		
D. Pse	agctttcg	gtaagttgaatc...612...	ccg-atagttttgatttgcca--	AGTGTGA	ACGGA	GTGCG	gaagaatctgcgccaaggc...761...	--tcgcattcacag	tcgcaagc		
D. Vir	agctttcg	gtaagtaactgt...875...	aaaaaatacaaa--	AGTGTGA	ACGGA	GTGCG	gaataatctttggcccccg...1827...	atcgtaaat--tag	acgcaagc		
D. Yak	aactttcg	gtgagtttactt...1192...	gcg-gta--tcttgagtgcgaag--	TGTGA	ACGGA	GTGCG	gaagaatctcagccaaggc...1084...	gctcttttt--cag	acgcaagc		
	*	*****	** ***			*****	*	**	***** *		

id=38530 gene=FBgn0010548 name=Aldh-III segment=chr2R.3358388.3360792.-1 type=IN VIEW

Figure 310: CS=14.63



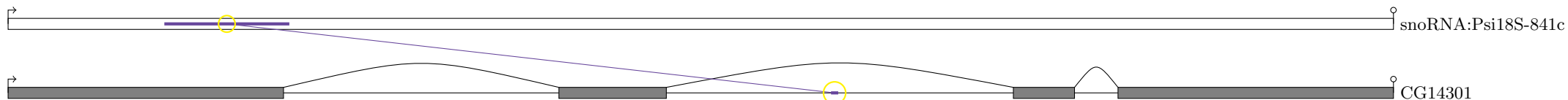
D.Mel	-----aattccta	GGCAA TGCACTCTGTG tCACAtTGAA -----ttgaatgtgaagacaatttg---...74...cattttacact--a	ttattaat
D.Sim	-----aaatccta	AGCAA TGCACTCTGTG tCACAtTGAA -cttaactacatgtgaagaca-----..79...cattttacact--a	tttttgat
D.Sec	-----aaatccta	GGCAA TGCACTCTGTG tCACAtTGAA -cttaactacatgtgaagaca-----..79...cattttacact--a	tttttga
D.Ana	-----atagttat	ggcAGATGCACTCTGTG ACACAcaGAAA ----tccacttgtgattacaattt---..75...tatcttacact--a	ttttaagt
D.Gri	gatccccaattacaccttc	tgcAAGCGCACTCTGTG tCACAtTGAA ----tcctcatgtgaagacaattt---..82...-ctttacactcgc	ttatagat
D.Moj	-----tcttttta	tgcAGGCGCACTCTGTG tCACAtTGAA ttATCT ---catgtgatgacaatttgta..76...cgctttacatt--a	cttttatt
D.Pse	-----ccaattta	ggcAAATGCACTCTGTG tCACAtTGAAA cacagcctcatgtgatgaca-----..86...-tcgtacatccta	gtaataat
D.Vir	-----tccttccc	tgcAAGTGCACTCTGTG tCACAt ---ttgatttgccacatgtgatg-----..82...cgccttacact--c	cttttaa
D.Wil	-----aattcctt	agcaAGCGCACTCTGTG tCACAtTGAT ---tgacctcatgtgaatacaat-----..76...tctacgacagc--t	taattgaa
		*** ***** ***	****

id=45596 gene=FBgn0083017 name=snoRNA:Psi18S-841c segment=chr2R.17218088.17218220.1 type=EN

D.Mel	gaattttg	gtgagttgaaaa...162...-----taaaaagcaacaacaggtt--	TTCA tTGTGTACAGA cGTGTGTGCT	ctaccctctcgcctctcgccc...146...-----agtggtaaagtt	gagtcgaa-	
D.Sim	gaattttg	gtgagttgaaaa...162...-----taaaaagcaacaacaggtt--	TTCA tTGTGTACAGA cGTGTGTGCT	ctgccctctcgcctctcgccc...146...-----agtggtaaagta	aagttgag-	
D.Sec	gaattttg	gtgagttgaaaa...162...-----taaaaagcaacaacaggtt--	TTCA tTGTGTACAGA cGTGTGTGCT	ctgccctctcgcctctcgccc...155...-----taaagtaaagtt	gagtcgaa-	
D.Ana	aagttttg	gtgagtcgaaga...166...-----ataaaaagcaacaacaggtt--	TTTCat TGTGTACAGA cGTGTGTTT	-cctccccgtacactacacta...146...-----ccaagtgtaaag--	-agccaac-	
D.Gri	gaattttg	gtgagtcagtg...210...-----gacgaagtaacaacaggtt--	TTTA tTGTGTACAGA cGTGTGTTT	-ttctctcttttaatttatgc...185...cagtcgagtgctgaagtg	gc-----	
D.Moj	gaattttg	gtgagtttaagt...185...cctagagtcaagcaacaac--	AGGTt TTTA tTGTGTACAGA cGTGTGTTT	-ttctctcttttaatttatgc...178...cagacgaa-gcggaagca	gca-----	
D.Pse	gaattttg	gtgagttaaag...166...-----tataaaaagcaacaacaggtt--	TTTTA tTGTGTACAGA cGTGTGTTT	-tttctctctctctataatt...194...-----agtggtaaagtc	g-gtggctt	
D.Vir	gaattttg	gtgagttcagtg...199...-----agcaacaacaggtttttt--	TGTGTACAGA cGTGTGTTT	-ttctctcttttaatttatgc...208...-----agtgctaaagtg	gcgccaa-	
D.Wil	aagttttg	gtgagtttaaaa...190...-----aaagcaacaacaggtttttt	ATTGTGTGTACAGA cGTGTGTTT	-acttctcttgcccctgctg...192...-agctaagctctaaagt-	----caaa-	
	* *****	***** *	** *****	* *****	* *	***

id=103430 gene=FBgn0016059 name=Sema-1b segment=chr2R.13570500.13570897.-1 type=I5 VIEW

Figure 311: CS=10.62



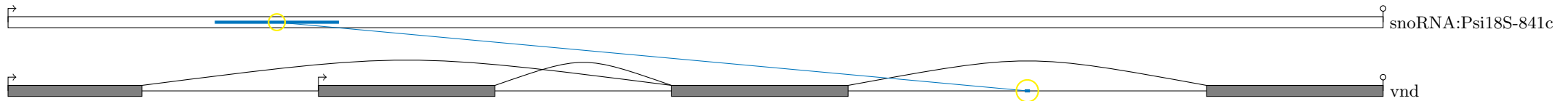
D.Mel	-----aattctta	ggcaaATGCACTCTGTGTCA	cattga---attg---aatgtgaaga...81...cattttacact--a	ttattaat
D.Sim	-----aaatctta	agcaaATGCACTCTGTGTCA	cattga-acttaactacatgt-----..86...cattttacact--a	ttttgat
D.Sec	-----aaatctta	ggcaaATGCACTCTGTGTCA	cattga-acttaactacatgt-----..86...cattttacact--a	tttttga
D.Ere	-----aattctta	ggcaaATGCACTCTGTGTCA	cattga-attgactacatgt-----..86...catttaacact--a	ttataaat
D.Gri	gatccccaattacaccttc	tgcaagcGCACCTCTGTGTCA	cattga---at--cctcatgtgaag-...89...-ctttacactcgc	ttatagat
D.Moj	-----tcttttta	tgcaagcGCACCTCTGTGTCA	cattga---attatctcatgtga---..89...cgctttacatt--a	cttttatt
D.Per	-----ccatttta	ggcaaATGCACTCTGTGTCA	cattgaaacactgcctcatg-----..94...-tcgtacatccta	gtaaatag
D.Pse	-----ccaattta	ggcaaATGCACTCTGTGTCA	cattgaaacacagcctcatg-----..94...-tcgtacatccta	gtaataat
D.Vir	-----tccttccc	tgcaagTGCACCTCTGTGTCA	cattga---tttgccacatgtga---..84...gcgccttacactc-c	ttttaaa-
D.Wil	-----aattcctt	agcaagcGCACCTCTGTGTCA	cattga---ttgacctcatgtga---..83...tctacgacagc--t	taattgaa
		***	*****	***

id=45596 gene=FBgn0083017 name=snoRNA:Psi18S-841c segment=chr2R.17218088.17218220.1 type=EN

D.Mel	cattcccc	gtgggtaatgga...259...acgagcgcaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...291...--aatcatttgca	gtcgtcct
D.Sim	cattcccc	gtgcgtaatgga...261...acgagcgcaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...281...--aatcatttgca	gtcgtcct
D.Sec	cattcccc	gtgggtaatgga...266...acgagcgcaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...281...--aatcatttgca	gtcgtcct
D.Ere	cattcccc	gtaaccaaat...235...ggacgagcgcaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...297...--aatcatttgca	gtcgtcct
D.Gri	cataccgg	gtaagtgcaccg...203...tatttttcgaatggaaaatt	TGGCACAGAA	GTGC	atctactcgtaaattcattt--..287...ataacc--ttgcag	gtcgacc
D.Moj	aataccgg	gtgagcattaca...875...tatttttcgaatggaaaatt	TGGCACAGAA	GTGC	agctactcgtaaattcattt--..302...ataatc--tttcag	gtcgacca
D.Per	cattccgg	gtaagtttttg...539...aatggcacggaatgaatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...298...--aatcattcacag	gtcgtcct
D.Pse	gattccgg	gtaagtttttag...513...aatggcacggaatgaatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...305...--aatcattcacag	gtcgtcct
D.Vir	cataccgg	gtgagcacatta...511...tatttttcgaatggaaaatt	TGGCACAGAA	GTGCAG	ctactcgtaaattcattta-...318...ataatc--ttgcag	gtcgacc
D.Wil	cataccgg	gtaagtactaag...297...atttttccgaaccgaatatt	TGGCACAGAA	GTGC	atctactcgtaaattcattt--..334...--aatcatttgca	gtcgccca
	** ** *		***	*****	***	***

id=118864 gene=FBgn0038632 name=CG14301 segment=chr3R.14455812.14456441.-1 type=IN

Figure 312: CS=11.8



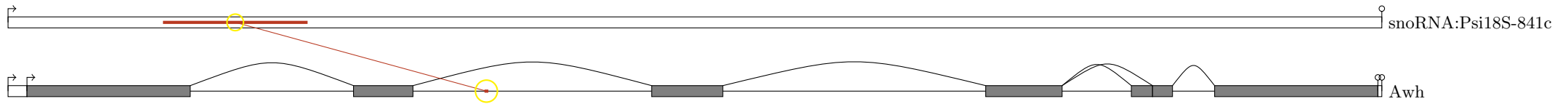
D.Mel	aattcctt-----	A	GGCaaATGCActCTGTGTCAcATTGAA	-----ttgaatgtgaagacaatttg...74...cattttacact--a	ttattaat	
D.Sim	aaatcctt-----	A	AGCaaATGCActCTGTGTCAcATTGAA	-----cttaactacatgtgaagaca-----...79...cattttacact--a	tttttgat	
D.Sec	aaatcctt-----	A	GGCaaATGCActCTGTGTCAcATTGAA	-----cttaactacatgtgaagaca-----...79...cattttacact--a	tttttga	
D.Ere	aattcctt-----	A	GGCaaATGCActCTGTGTCAcATTGAA	-----tttgactacatgtgaaaca-----...79...cattttacact--a	ttataaat	
D.Gri	gatcccaattacacctcctgcaagcgcaact	-----	CTGTGTCAcATTG	-----aatcctcatgtgaagacaat---...84...-ctttacactcgc	ttatagat	
D.Per	ccatttt-----	A	GGCaaATGCActCTGTGTCAcATTG	-----aaacactgcctcatgtgatg-----...89...-tcgtacatccta	gtaaatgt	
D.Pse	-----ccaatt-----	TA	GGCaaATGCActCTGTGTCAcATTG	-----aaacacagcctcatgtgatg-----...89...-tcgtacatccta	gtaataat	
D.Vir	tccttccc-----	-----	TGCAagTGCActCTGTGTCAcATTG	-----atttgccacatgtgatgaca-----...79...cgccttacactc-	ttttaaa-	
D.Wil	aattcctta-----	gcaagcgcaact-	-----	CTGTGTCAcATTG	-----attgacctcatgtgaataca-----...78...tctacgacagc--	taattgaa
			*****	*****	***	

id=45596 gene=FBgn0083017 name=snoRNA:Psi18S-841c segment=chr2R.17218088.17218220.1 type=EN

D.Mel	gctatacg	gtgagcgaatgt...514...-agcaggggttgggcttcc--cc	TTAATcaTGACtaATAGttTGTATgcGCTT	cacacttgaggattagcctt...1440...ctttgatttcag	gtacccag
D.Sim	gctatacg	gtaagcgaatgt...529...-agcaggggttgggcttcc--cc	TTAATcaTGACtaATAGttTGTATgcGCTT	cacacttcaggattagcctt...1433...ctttgatttcag	gaaccag
D.Sec	gctatacg	gtaagcgaatgt...530...-agcaggggttgggcttcc--cc	TTAATcaTGACtaATAGttTGTATgcGCTT	cacacttgaggattagcctt...1421...ctttgatttcag	gaaccag
D.Ere	gctatacg	gtgagtttagat...306...gagcaggggtt-ggcttcc--cc	TTAATcaTGACtaATAGttTGTATgcGCTT	cacacttgaggattagcctt...1442...tcccatttcag	gcaccag
D.Gri	actatatg	gtaagtgtctcc...631...-ctagaaactgcggcct--aaca	TAATctTGACtaATAGttTGTATgcGCTT	cacacttcaggattagcctt...2072...tctctgtgcag	gcactcaa
D.Per	attatacg	gtgagtccaaat...950...-ctgggggttggggttct--atta	TAATctTGACtaATAGttTGTATgcGCTT	cacacttgaggattaactct...1386...tctccatgcag	gcaccag
D.Pse	attatacg	gtgagtccaaat...981...-ctgggggttggggttct--atta	TAATctTGACtaATAGttTGTATgcGCTT	cacacttgaggattaactct...1386...tctccatgcag	gcaccag
D.Vir	aatttatg	gtaagtgtgcat...707...-ctagaaactgtggccc--aaca	TAATctTGACtaATAGttTGTATGCG	ccttcacacttgaggattaat---...1620...ctctctgcag	gcactcag
D.Wil	gctatatg	gtgagtttaagt...978...-gttgtcgagacccgaaca	TAATctTGACtaATAGttTGTATGCG	ccttcacacttcaggattagcctt...1507...tttgatttcag	gcacacaa
	* ** *	** ** *	* **** *****	*****	* ** * ** ** *

id=58212 gene=FBgn0003986 name=vnd segment=chrX.488340.490388.1 type=IN

Figure 313: CS=10.62



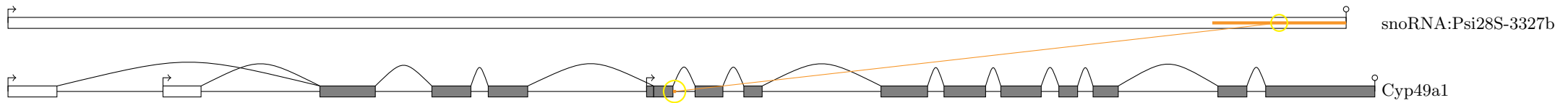
D. Mel	-----aattctta	ggcaaatGCACTcTGTGtCACAT	tgaa----t-tgaatgtgaagacaa...78...cattttacacta	ttattaat
D. Sim	-----aaatctta	agcaaatGCACTcTGTGtCACAT	tgaa-cttaactacatgtgaa-----..83...cattttacacta	tttttgat
D. Sec	-----aaatctta	ggcaaatGCACTcTGTGtCACAT	tgaa-cttaactacatgtgaa-----..83...cattttacacta	tttttga
D. Ere	-----aattctta	ggcaaatGCACTcTGTGtCACAT	tgaa-tttgactacatgtgaa-----..83...catttaacacta	ttataaat
D. Ana	-----atagttat	ggcagatGCACTcTGTGtCACAT	tgaa---atccacttgtgatta---..81...tatcttacacta	ttttaagt
D. Gri	gatcccaattacaccttc	tgcaggcGCACTcTGTGtCACAT	tgaa----tcctcatgtgaagaca...86...ctttacactcgc	ttatagat
D. Moj	-----tcttttta	tgcaggcGCACTcTGTGtCACAT	tgaa---ttatctcatgtgatg---..87...cgctttacatta	cttttatt
D. Per	-----ccatttta	ggcaaatGCACTcTGTGtCACAT	tgaaacactgcctcatgtga-----..91...tcgtacatccta	gtaatagt
D. Pse	-----ccaattta	ggcaaatGCACTcTGTGtCACAT	tgaaacacagcctcatgtga-----..91...tcgtacatccta	gtaataat
D. Vir	-----tccttccc	tgcaagtGCACTcTGTGtCACAT	tgat---ttgccacatgtgatga---..81...cgctttacactc	cttttaaa
D. Yak	-----aattctta	ggcaaatGCACTcTGTGtCACAT	tgaa-tttaactacatgtat-----..34...catttgacacta	ttataaat
		*** ***** ** *	*** * * *	*

id=45596 gene=FBgn0083017 name=snoRNA:Psi18S-841c segment=chr2R.17218088.17218220.1 type=EN

D. Mel	tacagcaa	gtgagtatagga...178...at	tt---tccaactcgattgtgt--	ATGTGCACAAGTGT	-ttccgaatag-tttcccaca...787...gtttaattgcag	aaatttcg
D. Sim	tacagcaa	gtgagtatagga...147...at	tt---tccaactcgattgtgt--	ATGTGCACAAGTGT	-ttccgaatag-tttcccaca...793...gtttaattgcag	aaatttcg
D. Sec	tacagcaa	gtgagtatagga...120...at	tt---tccaactcgattgtgt--	ATGTGCACAAGTGT	-ttccgaatag-tttcccaca...795...gtttaattgcag	aaatttcg
D. Ere	tacagcaa	gtgagtacagag...165...at	tt---tccaactcgattgtgt--	ATGTGCACAAGTGT	-ttccgaatag-tttcccaca...846...gtttaattgcag	aaatttcg
D. Ana	tacagcaa	gtaagtatctga...118...-t	tt---tccaactcatgttcgta--	TGTGCACAAGTGT	-tttaggaatag-tttcccac...862...tttaatttcgag	aaatttcg
D. Gri	tacagcaa	gtaagtatttaa...289...c	agt---gtcagtggtgtgtgt	GTGTGtGCACAAGTGT	-ttccaacatat-tttcccaca...892...ttttatttcgag	aagttttg
D. Moj	tacagcaa	gtgagtatacat...440...-t	tttaccactccttctgc---	TGTGtGCACAAGTGT	-ttccacatat-tttcccaca...1314...ttgttttcgag	aaatttcg
D. Per	tacagcaa	gtgagttacca...103...a	ct---cgtattgtgagtggt	GTGTGtGCACAAGTGT	-ttccaaatagttttcccac...696...tttaatttcgag	aaatttcg
D. Pse	tacagcaa	gtgagttacca...103...a	ct---cgtattgtgagtggt	GTGTGtGCACAAGTGT	-ttccaaatagttttcccac...710...tttaatttcgag	aaatttcg
D. Vir	tacagcaa	gtgagtcgtcat...312...t	gct---gtgtgtgtgtgtgt	GTGTGtGCACAAGTGT	-tttcacatat-tttcccaca...1103...ttattatttcgag	aaatttcg
D. Yak	tacagcaa	gtgagtattgcc...194...-t	tt---ccaactcgattgtgt--	TGTGCACAAGTGT	-ttccgaatag-tttcccaca...842...gtttaattgcag	aaatttcg
	*****	** **	*	*	***** ** * *	* ***** ** ** *

id=14734 gene=FBgn0013751 name=Awh segment=chr3L.3858124.3859166.1 type=IN

Figure 314: CS=10.56



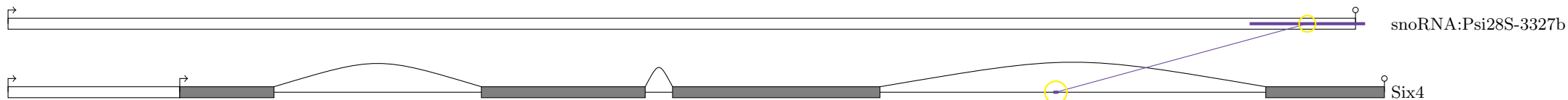
D.Mel	taattctg	tgggctacgtcg...86...attccacagtcgtctgagta	ACTTt	TACGTg	CAAT	tacaatg----	caattaaa
D.Sim	gaaaactg	tgggcttcgtcg...86...attcgacagtcgtctgagta	ACTTt	TACGTg	CAAT	tacaatg----	caatgaaa
D.Sec	gaaaactg	tgggcttcgtcg...86...attccacagtcgtctgagta	ACTTt	TACGTg	CAAT	tacaatg----	caataaaa
D.Ere	actgtttg	tgggcttcgtcg...86...attccacagccgtcttagta	ACTTt	TACGTg	CAAT	tacaatg----	taatgaag
D.Gri	gtttatcg	tgggcttcgtcg...95...ttttgtcagccgtttcagta	ACTTt	TACGTg	CAAT	tacaatg----	caacctaa
D.Moj	ttgttaga	tgggctacatcg...86...attctccagccgtttcagta	ACTTt	TACGTg	CAAT	tacaatg----	taactaaa
D.Per	aaagatgt	ctggctttatcg...87...attccgcagccatttcagta	ACTTt	TACGTg	CAAT	tacattc----	aaattgaa
D.Pse	aaagatgt	ctggctttatcg...87...attccgcagccatttcagta	ACTTt	TACGTg	CAAT	tacattc----	aaattgaa
D.Vir	ctttaaac	ttggctggttcg...87...tttagccagcaatttcagta	ACTTt	ACGTGCAAT		tacatttaca	tatttaag
D.Yak	actgtttg	tgggcttcgtcg...87...tttcacagtcgtcttagta	ACTTt	TACGTg	CAAT	tacaatg----	taataaaa
		****	***	**	***	* * *****	*****

id=95913 gene=FBgn0082966 name=snoRNA:Psi28S-3327b segment=chr3L_13036044_13036183.1 type=EN

D.Mel	aTTGGCGT	GtAAGT	aatgtgcttatataacggat-...55...tacctcattcag	gcatggcc
D.Sim	aTTGGCGT	GtAAGT	aatgtgcttatataacggat-...55...taccttattcag	gcatggtc
D.Sec	aTTGGCGT	GtAAGT	aatgtgcttatataacggat-...57...taccttattcag	gcatggtc
D.Ere	aTTGGCGT	GtAAGT	aatgtgcttatataacggat-...35...tactttattcag	gcacggtc
D.Gri	aTTGGCGT	GtAAGT	attacg-ttgcatttggcaag...48...catcatcattag	gcacggcc
D.Moj	aTTGGCGT	GtAAGT	attacg-ttgcatttggcaag...52...gcacacaattag	gcacggtc
D.Per	aTTGGCGT	GtAAGT	aacgtgcttatataacggac-...41...tgcccaccgcag	gcacggac
D.Pse	aTTGGCGT	GtAAGT	aacgtgcttatataacggac-...41...tgcccaccgcag	gcacggac
D.Vir	aTTGgCGT	GtAAGT	attacg-ttgcatttggcaaa...32...actcacaattag	gcacggtc
D.Yak	aTTGGCGT	GtAAGT	aatgcgcttatataacggat-...48...tacttcattcag	gcatggtc
	*****	*****	* ** ** * *	** *** ** *

id=123011 gene=FBgn0033524 name=Cyp49a1 segment=chr2R_6339710_6339802.-1 type=IN

Figure 315: CS=10.8



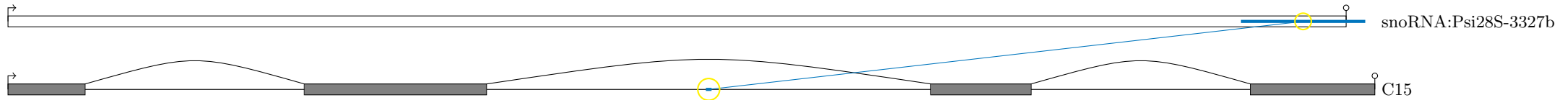
D.Mel	taattctg	tgggctacgtcg...88...tccacagtcgtctgagtaac	TTTTAcGTGCAATT	acaatg----	caattaaa
D.Sim	gaaaactg	tgggcttcgtcg...88...tccacagtcgtctgagtaac	TTTTAcGTGCAATT	acaatg----	caatgaaa
D.Sec	gaaaactg	tgggcttcgtcg...88...tccacagtcgtctgagtaac	TTTTAcGTGCAATT	acaatg----	caataaaa
D.Ere	actgtttg	tgggcttcgtcg...88...tccacagccgtcttagtaac	TTTTAcGTGCAATT	acaatg----	taatgaag
D.Gri	gtttatcg	tgggcttcgtcg...97...ttgtcagccgtttcagtaac	TTTTAcGTGCAATT	acaatg----	caacctaa
D.Moj	ttgttaga	tgggctacatcg...88...tctccagccgtttcagtaac	TTTTAcGTGCAATT	acaatg----	taactaaa
D.Per	aaagatgt	ctggctttatcg...89...tccgcagccatttcagtaac	TTTTAcGTGCAATT	acattc----	aaattgaa
D.Pse	aaagatgt	ctggctttatcg...89...tccgcagccatttcagtaac	TTTTAcGTGCAATT	acattc----	aaattgaa
D.Vir	ctttaaac	ttggctggttcg...89...tagccagcaatttcagtaac	TTTAacGTGCAATT	acatttaca	tatttaag
D.Yak	actgtttg	tgggcttcgtcg...89...tccacagtcgtcttagtaac	TTTTAcGTGCAATT	CAAAG----	taataaaa
		**** ** * ** * ***** *****			* *

id=95913 gene=FBgn0082966 name=snoRNA:Psi28S-3327b segment=chr3L.13036044-13036183.1 type=EN

D.Mel	caaagacc	gtgagttgaaat...378...-----aatataatcaattgttctg--g	AATTgGCA-TTAAAA	-----atcgtttg-----	taagtaccggtt...508...gtttgattttag	ggacatca
D.Sim	cagagacc	gtaagtcgaagt...396...-----aatataatcaattgttctg--g	AATTgGCA-TTAAAA	-----atcgtttg-----	taagtaccggtt...524...gtttgattttag	ggacatca
D.Sec	cagagacc	gtaagtcgaagt...399...-----aatataatcaattgttctg--g	AATTgGCA-TTAAAA	-----atcgtttg-----	taagtaccggtt...498...gtttgattttag	ggacatca
D.Ere	caaagacc	gtaagtcgatg...415...-----aatataatcaattcctttg--g	AATTgGCA-TTAAAA	-----atcgtttg-----	taagtaccggtt...602...gtttcattttag	tgacataa
D.Gri	cagcgacc	gtaagttcactt...115...-----aaaaactcaattgttttc--aa	AATTgGCA-TTAAAA	acaaaaa-----	aaaaagaaagaa...403...ttttcctttag	tgatataa
D.Moj	caaagacc	gtaagttcactt...114...-----caattcaattgtttttcaaa	AATTgGCAT-TTAAAA	-----atcgttt-----	taagtaccggtt...356...ttctctttacag	tgatataa
D.Per	caacgacc	gtaagttgatg...177...-----atataatcaattgttttg--ga	AATTgGCA-TTAAAA	-----atcgtttgactcgttaagtg-----	...371...cgttcctttgag	tgatatta
D.Pse	caacgacc	gtaagttgatg...162...-----atataatcaattgttttg--ga	AATTgGCA-TTAAAA	-----atcgtttgactcgttaagtg-----	...364...cgttcctttgag	tgatatta
D.Vir	caaagaac	gtaagttcaaca...145...-----agaaactcaattgttttc--aa	AATTgGCA-TTAAAA	aaaaaatcgtt-----	taagtaccggtt...382...atcttctttgag	tgatatta
D.Yak	cagagacc	gtaagttgatg...484...gcaacgaatataatcaattc--	TTTTGgAATTgGCA-TTAAAA	-----tcgtttg-----	taagtaccggtt...573...gttcattttag	tgacataa
	** ** *	** ** *	* ***** *	***** *****	** *	** ** ** *

id=91872 gene=FBgn0027364 name=Six4 segment=chr3L.20782272-20783235.-1 type=IN VIEW

Figure 316: CS=10.8



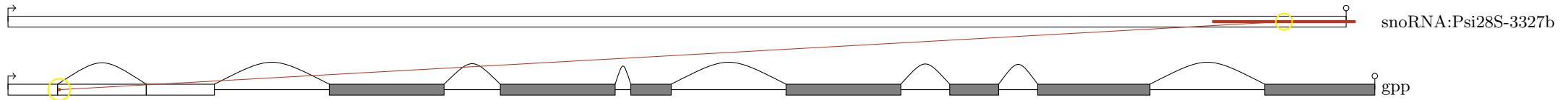
D.Mel	taattctg	tgggctacgtcg...87...ttccacagtcgtctgagtaa	CTTTACGTGCaATTA	caat---	g	caattaa	
D.Sim	gaaaactg	tgggcttcgtcg...87...ttccacagtcgtctgagtaa	CTTTACGTGCaATTA	caat---	g	caatgaaa	
D.Sec	gaaaactg	tgggcttcgtcg...87...ttccacagtcgtctgagtaa	CTTTACGTGCaATTA	caat---	g	caataaaa	
D.Ere	actgtttg	tgggcttcgtcg...87...ttccacagccgtcttagtaa	CTTTACGTGCaATTA	caat---	g	taatgaag	
D.Gri	gtttatcg	tgggcttcgtcg...96...ttgtcagccgtttcagtaa	CTTTACGTGCaATTA	caaa---	t	caacctaa	
D.Moj	ttgttaga	tgggctacatcg...87...ttctccagccgtttcagtaa	CTTTACGTGCaATTA	caaa---	t	taactaaa	
D.Per	aaagatgt	ctggctttatcg...88...ttccgcagccatttcagtaa	CTTTACGTGCaATTA	catt---	g	aaattgaa	
D.Pse	aaagatgt	ctggctttatcg...88...ttccgcagccatttcagtaa	CTTTACGTGCaATTA	catt---	g	aaattgaa	
D.Vir	ctttaaac	ttggctggttcg...89...tagc-cagcaatttcagtaa	TTTAA	CGTGCaATTA	catttaca	tatttaag	
D.Yak	actgtttg	tgggcttcgtcg...88...ttccacagtcgtcttagtaa	CTTTACGTGCaATTA	caaa---	g	taataaaa	
		****	***	*	****	* * ***** *****	* *

id=95913 gene=FBgn0082966 name=snoRNA:Psi28S-3327b segment=chr3L_13036044_13036183.1 type=EN

D.Mel	ggtggcag	gtgagtgaatag...2157...-cagccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...2224...ctctcgttacag	ctgccttt
D.Sim	ggcggca	aggatcggctgg...2164...-cagccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...2198...ctctcgttacag	ctgccttt
D.Sec	gctggcag	gtgagtgaagag...2144...-cagccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...2135...ctctcgttacag	ctgccttt
D.Ere	ggcggca	aggatcggctgg...2132...-gagccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...2180...ctctcgttacag	ctgccttt
D.Gri	acttgcag	gtgagtgttag...2289...tcggccacagg-cgccatcaa	TAATGCATGcTAAAAG	cTTTTtagcattatTTtaggt...2057...ctaaccattacag	ctgccttt
D.Moj	gctggcag	gtgagtgaagct...1684...tcggccacagg-cgccatcaa	TAATGCATGcTAAAAG	cTTTTtagcattatTTtaggt...1695...ttctgctttcag	ctgccttt
D.Per	actggcag	gtgaggagttgc...2235...-ctgcccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...1796...ctccattacag	ctgccttc
D.Pse	actggcag	gtgaggagttgc...2174...-ctgcccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...1798...ctccattacag	ctgccttc
D.Vir	gctggcag	gtgagcaaatgg...1795...tcggccacagg-cgccatcaa	TAATGCATGcTAAAAG	agcTTTTtagcattatTTtaggt...2260...tctattccacag	ctgccttt
D.Yak	ggcggca	aggatcgtctgg...2229...-gagccacagggccgtcatcaa	TAATGCATGcTAAAAG	cTTTTgcattatTTtaggt...2048...ctctcgttacag	ctgccttt
	*	**	***** ** *****	*****	*** *****

id=101117 gene=FBgn0004863 name=C15 segment=chr3R_17328392_17332852.1 type=IN

Figure 317: CS=10



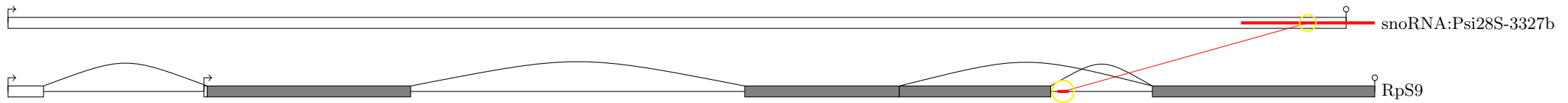
D.Mel	taattctg	tgggctacgtcg...86...-----attccacagtcgtctgagtaACTTttACGTgcAATT-----acaatg	caattaaa
D.Sim	gaaaactg	tgggcttcgtcg...86...-----attcgacagtcgtctgagtaACTTttACGTgcAATT-----acaatg	caatgaaa
D.Sec	gaaaactg	tgggcttcgtcg...86...-----attccacagtcgtctgagtaACTTttACGTgcAATT-----acaatg	caataaaa
D.Ere	actgtttg	tgggcttcgtcg...86...-----attccacagccgctctagtaACTTttACGTgcAATT-----acaatg	taatgaag
D.Gri	gtttatcg	tgggcttcacatcg...95...-----tttgtcagccgctttagtaACTTttACGTgcAATTacAAAT-----caacctaa	caacctaa
D.Moj	ttgttaga	tgggctacatcg...86...-----attctccagccgctttagtaACTTttACGTgcAATTacAAATTA----actaaa	actaaa
D.Per	aaagatgt	ctggctttatcg...78...gatctgtgcatcccgagccATTTCAGTAACTTttACGTgcAATTA-----cattc	aaattgaa
D.Pse	aaagatgt	ctggctttatcg...78...gatctgtgcattccgagccATTTCAGTAACTTttACGTgcAATTA-----cattc	aaattgaa
D.Vir	ctttaaac	ttggctggttcg...87...-----tttagccagcaatttcagtaACTTtaACGTgcAATTAcATTAcatt-atttaag	atttaag
D.Yak	actgtttg	tgggcttcgtcg...87...-----tttccacagtcgtcttagtaACTTttACGTgcAATT-----acaaag	taataaaa
		**** ** * * * * * * * * * * * * * * *	*

id=95913 gene=FBgn0082966 name=snoRNA:Psi28S-3327b segment=chr3L.13036044.13036183.1 type=EN

D.Mel	ttctttcg	ctggaacataac...178...-----agaatacg-aaaagttagcta---AATTACGTGAGT-----ag-----	ag-----
D.Sim	ctctttcg	ctggaacataac...178...-----agaatacg-aaaagttagctg---AATTACGTGAGT-----ag-----	ag-----
D.Sec	ctctttcg	ctggaacataac...178...-----agaatacg-aaaagttagctg---AATTACGTGAGT-----ag-----	ag-----
D.Ere	ctctttcg	ctggaacataac...178...-----agaatacg-aaaagttagctg---AATTACGTGAGT-----ag-----	ag-----
D.Gri	cgctctcg	cttgaacggtac...172...-----caataagcaaaatacatcaaGTTTAATTACGTGAGT-----gt-----	gt-----
D.Moj	cgctctcg	cttgaacggtat...167...---gctataactaagcaaaataca-TAATTTAATTACGTGAGT-----gt-----	gt-----
D.Per	tctcagcg	cttgacgtgaac...178...ataatatataataagagaaa---T-----AATTACGTGAGTttGCTGAGATatgtggtgtg	atgtggtgtg
D.Pse	tctcagcg	cttgacgtgaac...178...ataatatataataagagaaa---T-----AATTACGTGAGTttGCTGAGATatgtggtgtg	atgtggtgtg
D.Vir	cgctctcg	cttgaacggtac...168...---gctttaataagcaaaataca-TAAGTtAATTACGTGAGT-----gt-----	gt-----
D.Yak	ctctttcg	ctggaacataac...181...-----gaatacgaaaaaattagctg---AATTACGTGAGT-----ag-----	ag-----
		** ** * * * * * * * * * * * * * * *	

id=101133 gene=FBgn0014963 name=gpp segment=chr3R.2232598.2232813.1 type=E5

Figure 318: CS=13



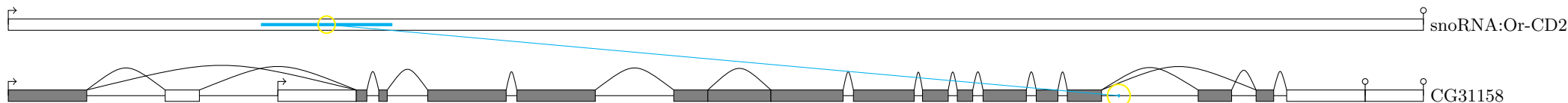
D.Mel	taattctg	tgggctacgtcg...89...----	ccacagtcgtctgagtaact-----	TTTAcGTGCAATTAC	---aatg	caattaa
D.Sim	gaaaactg	tgggcttcgtcg...89...----	cgacagtcgtctgagtaact-----	TTTAcGTGCAATTAC	---aatg	caatgaaa
D.Sec	gaaaactg	tgggcttcgtcg...89...----	ccacagtcgtctgagtaact-----	TTTAcGTGCAATTAC	---aatg	caataaaa
D.Ere	actgtttg	tgggcttcgtcg...89...----	ccacagccgtcttagtaact-----	TTTAcGTGCAATTAC	---aatg	taatgaag
D.Gri	gtttatcg	tgggcttcacg...98...tgt---	cagccgtttcagtaact-----	TTTAcGTGCAATTACA	---aatc	aacctaa-
D.Moj	ttgttaga	tgggctacatcg...85...cattctc	ccagccgtttcagtaact-----	AACTTTAcGTGCAATTAC	---aat	taactaaa
D.Per	aaagatgt	ctggctttatcg...90...----	ccgcagccatttcagtaact-----	TTTAcGTGCAATTAC	---atc	aaattgaa
D.Pse	aaagatgt	ctggctttatcg...90...----	ccgcagccatttcagtaact-----	TTTAcGTGCAATTAC	---atc	aaattgaa
D.Vir	ctttaaac	tgggctgtgtcg...82...gtgcatt	tagcc----agcaattCAGTAac	TTTAacGTGCAATTAC	atttaca	tatttaag
D.Yak	actgtttg	tgggcttcgtcg...90...----	ccacagtcgtcttagtaact-----	TTTAcGTGCAATTAC	---aaag	taataaaa
		****	***	** *	**	*

id=95913 gene=FBgn0082966 name=snoRNA:Psi28S-3327b segment=chr3L_13036044_13036183.1 type=EN

D.Mel	cgccctagc	GTAAGTTGCACTGAA	----cg-ttt--ttgttgaaccaac...	76...ttgttttcacag	tgtccgca
D.Sim	cgccctagc	GTAAGTTGCACTGAA	----cg--tt--ttgttgaaccaaca...	71...ttgcctttcacag	tgtccgca
D.Sec	cgccctagc	GTAAGTTGCACTGAA	----cg--tt--ttgttgaaccaaca...	68...ttgcctttcacag	tgtccgca
D.Ere	cgccctagc	GTAAGTTGCACTGAA	----cgtttttctttgttgaacc----	a...69...ctgttctcacag	tgtccgca
D.Gri	tgcattgt	GTAAGTTGCACTGAA	----caatttaaactgctctatcc----	.58...tcgtttgtgcag	tgtgcgca
D.Moj	tacatagc	GTAAGTTGCACTGAA	AGTTtgcctcaacttgatagctcc----	.48...tctgttaaatag	tgtgcgca
D.Per	cgccattgc	GTAAGTTGCACTGAA	----cgccatgcc----aaaacctcgca...	54...ctccccatctag	tgtgcgca
D.Pse	cgccattgc	GTAAGTTGCACTGAA	----cgccatgcc----aaaacctcgca...	54...tccccatctag	tgtgcgca
D.Vir	tccatagc	GTAAGTTGCACTGAA	caTATGctccaacttgaagcccttg--...	51...acattcatacag	tgtgcgca
D.Yak	cgccctagc	GTAAGTTGCACTGAA	----cgtttt--ttgttgaact--ata...	61...atgttttcacag	tgtccgca
		***	*****	**	***

id=108695 gene=FBgn0010408 name=Rps9 segment=chr3L_9503259_9503381.-1 type=IN VIEW

Figure 319: CS=12



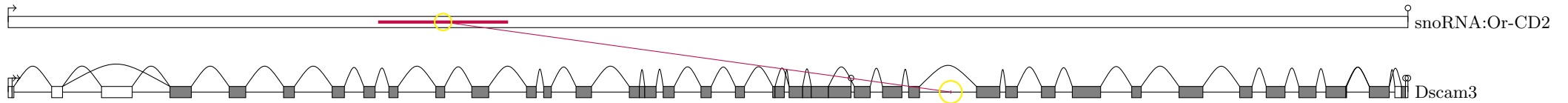
D.Mel	aaatgaag	atttcaatga	TGATCa	-CTTAAACCA	ttCACAG	acacccatataaaaggtcaagc...	76...	ggcactgagcct	cataatgc
D.Sec	aaatgaag	acttcaatga	TGATCa	-cTTAAACCA	ttCACAG	acacccatataaaaggtcaaac...	76...	ggcactgagcct	cataatgc
D.Ere	gaatagag	acttcaatga	TGATCa	tTTTAAACCA	ttCACAG	acacccatataaaaggtcaagc...	76...	ggcactgagcat	cataatgc
D.Ana	cacagaat	gcttcaatgatgataa	CTTAAACCA	ttCACAG	acacccatataaaaggtcaagc...	76...	ggcactgagcct	cactcttt	
D.Gri	gtattgcc	cttgcaatgatgataa	-TTAAACCA	ttCACAG	acacccatataaaaggtcaagc...	76...	ggcactgagcct	tataccta	
D.Per	gcatgggg	acttcaatgatgatcac	-TTAAACCA	ttCACAG	acacccatataaaaggtgggt...	76...	ggcactgagcct	catatacc	
D.Pse	gcatgggg	acttcaatgatgatcac	-TTAAACCA	ttCACAG	acacccatataaaaggttaagt...	76...	ggcactgagcct	catatacc	
D.Vir	ctattgca	tttgcaatgatgatcac	-TTAAACCA	ttCACAG	acacccatataaaaggttaagc...	76...	ggcactgagcct	tacactta	
D.Wil	aaaaaat	aattcaatgatgatcac	-TTAAACCA	ttCACAG	acacccatataaaaggttaaat...	76...	ggcactgagcct	tatttttc	
D.Yak	aaatgaag	acttcaatga	TGATCa	-CTTAAACCA	ttCACAG	acacccatataaaaggtcaagc...	76...	ggcactgagcct	cgtaatgc
			*	*	*	*	*	*	*

id=71184 gene=FBgn0086603 name=snoRNA:Or-CD2 segment=chr2R.4984535_4984674.1 type=EN

D.Mel	acgaacag	gtacagtcagca...	64...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	cGATCG	ctccgatcgattcgttacat----	1109...	tcaatcctacag	atggttcg
D.Sec	acgaacag	gtacagtcagca...	64...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	cGATCG	ctccgatcgattcgttacat----	1097...	tcaatcctacag	atggttcg
D.Ere	acgaacag	gtacagtcagca...	64...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	cGATCG	ctccgatcattcgttatat----	1091...	tcaatcctacag	atggttcg
D.Ana	gcgaacag	gtacagtcagca...	70...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	-----	cagtctctgccatccatctc...	1120...	tcaatcctacag	atggctcg
D.Gri	agcagcag	gtacagtcagca...	64...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	-----	ttgcaaatacccttaccat----	1600...	gaatttttacag	atggttcg
D.Per	tcgaacag	gtacagtcagca...	67...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	-----	agcgatcgcttcgatccatt---	1223...	tcaatcctacag	atggctcg
D.Pse	tcgaacag	gtacagtcagca...	67...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	-----	agcgatcgcttcgatccata---	1230...	tcaatcctacag	atggctcg
D.Vir	actagcag	gtatagtcaaca...	58...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	-----	tgccctttctaataagttat---	1036...	aaatttttacag	atggttcg
D.Wil	acgaacag	gtacagtcagca...	67...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	-----	aaccttccccatactacc...	1241...	caatttttacag	atggttcg
D.Yak	acgaacag	gtacagtcagca...	64...	gtaatgggagttttctcagc	TTGTGTGGTTTAAAG	cGATCG	ctccgatcattcgttatat----	1114...	tcaatcctacag	atggttcg
			*	*	*	*	*	*	*	*

id=131966 gene=FBgn0051158 name=CG31158 segment=chr3R.18431293_18432549.1 type=IN

Figure 320: CS=10



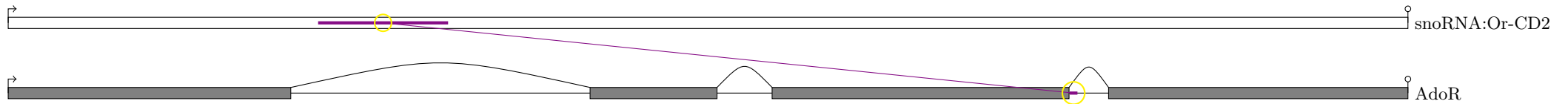
D.Me1	aatgaag	atttcaatgatgatca-cttaaacattca	CAGACACCA	tATAAAG	gtcaagcgtggcaatcttc	-----	..63..	ggcactgagctt	cataatgc
D.Sec	aatgaag	acttcaatgatgatca-cttaaacattca	CAGACACCA	tATAAAG	gtcaaacctggcaatcttc	-----	..63..	ggcactgagctt	cataatgc
D.Ere	gaatagag	acttcaatgatgatcattttaaacattca	CAGACACCA	tATAAAG	gtcaagcgtgacaatcttc	-----	..63..	ggcactgagcat	cataatgc
D.Ana	cacagaat	gcttcaatgatgataactttaaacattca	CAGACACCA	tATAAAG	TCaagcgtgacaactcttc	-----	..60..	ggcactgagctt	cactcttt
D.Gri	gtattgcc	cttgcaatgatgataa-tttaaacattca	CAGACACCA	tATAAAG	CTAAGCGCTGAC	aatctgcttcaatattttt	..50..	ggcactgagctt	tataccta
D.Per	gcatgggg	acttcaatgatgatca-cttaaacattca	CAGACACCA	tATAAAG	TTGGGTG	tagacaaacttcttcaatat	----	..55..	ggcactgagctt
D.Pse	gcatgggg	acttcaatgatgatca-cttaaac	ATTCaCAGACACCA	tATAAAG	TTAAGTG	tagacaaacttcttcaatat	----	..55..	ggcactgagctt
D.Vir	ctattgca	tgtcaatgatgatca-cttaaacattca	CAGACACCA	tATAAAG	TTAAGC	CTGGC	aaacttcttcaatattttt	..50..	ggcactgagctt
D.Wil	aaaaaat	aattcaatgatgatca-cttaaacattca	CAGACACCA	tATAAAG	TTAAGTT	aaacttcttcaatattttt	..60..	ggcactgagctt	tatttttc
D.Yak	aatgaag	acttcaatgatgatca-cttaaacattca	CAGACACCA	tATAAAG	gtcaagcgtgacaatcttc	-----	..63..	ggcactgagcat	cgtaatgc
			* * *	*****	* * *			*****	*

id=71184 gene=FBgn0086603 name=snoRNA:Or-CD2 segment=chr2R.4984535_4984674_1 type=EN

D.Me1	gcatcaaa	gtgagtacatgc...366	----	gggtgaagagagttgctcaa	-----	CTTTATTGGTTTTG	gcgtagggttcaatgggtg	-----	..310..	atttctaccag	ttgatttt	
D.Sec	gcatcaaa	gtgagtatatgt...357	----	gggtgaagagagttgctcaa	-----	CTTTATTGGTTTTG	gcgtagggttcaatgggtg	-----	..312..	atttctaccag	ttgatttt	
D.Ere	gcatcaaa	gtgagtatatgt...358	----	gggtgaagagagttgctcaa	-----	CTTTATTGGTTTTG	gcgtagggttcaatgggtg	-----	..270..	atttctgctag	ttgatttt	
D.Ana	gcatcaaa	gtgagtataatc...189	----	agatgg-gggcggggttgccc	-----	G-ACTTTATTGGTTTTG	gcgtagggttcaatgggtg	-----	..913..	ctttccctcag	ttgacttt	
D.Gri	gcatcaaa	gtgagtataggt...186	----	ggcaggcaggcaggcag--caa	GTITAG	TGCTTGG	TTTATTGGTTTTG	gcgcccggcgtgaatggg	-----	..582..	tcaattcacag	ttgacttc
D.Per	gcacaaa	gtgagtatatgc...260	----	acggaagcggagcgaacag--t	TGCTTG	ACTTTATTGGTTTTG	gcgagggttcaatggg	-----	..170..	gattccaatag	ttgacttt	
D.Pse	gcacaaa	gtgagtatatgc...260	----	acggaagcggagcgaacag--t	TGCTTG	ACTTTATTGGTTTTG	gcGAGT	agttcaatggg	-----	..164..	gattccaatag	ttgacttt
D.Vir	gcatcaaa	gtgagtatacgc...193	----	tgagcagtaacaagcgg--caa	GTITAG	ttGCTT	GGTTTATTGGTTTTG	gcgcccgcgtgtgc	-----	..303..	tcaattcacag	ttgacttc
D.Wil	gcatcaaa	gtgagtatatgc...233	----	atgcagtggagttgttgc	-----	G-ACTTTATTGGTTTTG	ccacagagttcaatgattcc	-----	..296..	tctataatag	ttgacttt	
D.Yak	gcatcaaa	gtgagtatatgt...332	----	gggtgaagagagttgctcaa	-----	CTTTATTGGTTTTG	gcgtagggttcaatgggtg	-----	..276..	atattctgccag	ttgatttt	
	*** **	*****	*	*		*****	* * *			**	**** *	

id=75805 gene=FBgn0261046 name=Dscam3 segment=chr3R.13306474_13307227_-1 type=IN

Figure 321: CS=11.5



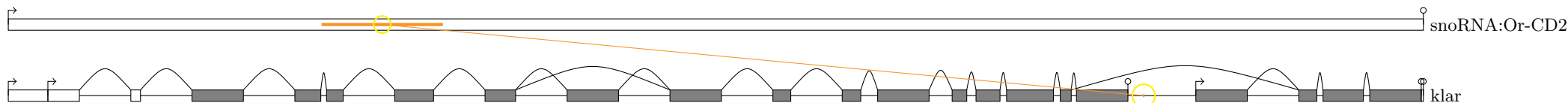
D. Mel	aaatgaag	atttcaatgatgatca-cttaaac	CATTCACAGa	CACC	atataaaggtcaagcgctgg...71...ggcactgagcct	cataatgc
D. Sim	aaatgaag	acttcaatgatgatca-cttaaac	CATTCACAGa	CACC	atataaaggtcaagctctgg...71...ggcactgagcct	cataatgc
D. Sec	aaatgaag	acttcaatgatgatca-cttaaac	CATTCACAGa	CACC	atataaaggtcaagctctgg...71...ggcactgagcct	cataatgc
D. Ere	gaatagag	acttcaatgatgatcattttaa	CATTCACAGa	CACC	atataaaggtcaagcgctga...71...ggcactgagcct	cataatgc
D. Ana	cacagaat	gcttcaatgatgataactttaa	CATTCACAGa	CACC	atataaaggtcaagcgctga...71...ggcactgagcct	cactcttt
D. Gri	gtattgcc	cttgcaatgatgataa-tttaa	CATTCACAGa	CACC	atataaaggtcaagcgctga...71...ggcactgagcct	tataccta
D. Per	gcatgggg	acttcaatgatgatca-ctta	CATTCACAGa	CACC	atataaaggttaagtgtaga...71...ggcactgagcct	catatacc
D. Pse	gcatgggg	acttcaatgatgatca-ctta	CATTCACAGa	CACC	atataaaggttaagtgtaga...71...ggcactgagcct	catatacc
D. Vir	ctattgca	tttgcaatgatgatca-ctta	CATTCACAGa	CACC	atataaaggttaagctctgg...71...ggcactgagcct	tacactta
D. Wil	aaaaaaat	aattcaatgatgatca-ctta	CATTCACAGa	CACC	atataaaggttaaatcttga...71...ggcactgagcct	tatttttc
D. Yak	aaatgaag	acttcaatgatgatca-ctta	CATTCACAGa	CACC	atataaaggtcaagcgctga...71...ggcactgagcct	cgtaatgc
		* * * * *	*****	* * *	* * * * *	*****

id=71184 gene=FBgn0086603 name=snoRNA:Or-CD2 segment=chr2R.4984535_4984674.1 type=EN

D. Mel	gGGTGagT	GTGAGTG	cgcggtgtctccttgaact...27...cattccctgcag	attcacc
D. Sim	gGGTGagT	GTGAGTG	cgcggtgtctccttgaact...27...cattccctgcag	attcacc
D. Sec	gGGTGagT	GTGAGTG	cgcggtgtctccttgaact...27...cattccctgcag	attcacc
D. Ere	gGGTGagT	GTGAGTG	cgcggtgtctccttgaact...27...attccctgcag	attcacc
D. Ana	gGGTGagT	GTGAGTG	cgcgactaaacctgtgtcc...29...attcgttctag	attcacc
D. Gri	gGGTGagT	GTGAGTG	cgcgctcgtcttcttatcc...41...ttactattgtag	attcacc
D. Per	gGGTGagT	GTGAGTG	cgcgctcgtctcccggccaaa...36...tttccctgcag	actcacc
D. Pse	gGGTGagT	GTGAGTG	cgcgctcgtctcccggccaaa...36...tttccctgcag	actcacc
D. Vir	gGGTGagT	GTGAGTG	cgcgctcgtctactttaatac...30...gcttccccacag	actcacc
D. Wil	gGGTGagT	GTGAGTG	cgcgctcgtctcaagaact...29...cccccttacag	actcacc
D. Yak	gGGTGagT	GTGAGTG	cgcggtgtcttcttgaact...27...tttccacgcag	attcacc
	*****	*****	*	** * * *

id=4468 gene=FBgn0039747 name=AdoR segment=chr3R.25962142_25962207_-1 type=IN

Figure 322: CS=11



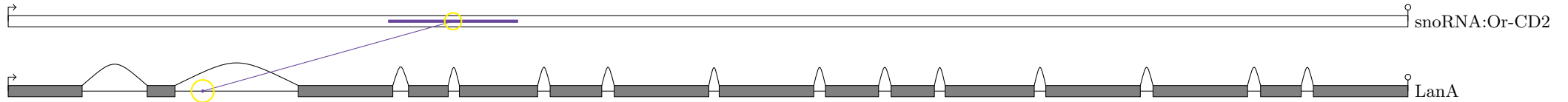
D. Mel	aaatgaag	atttcaatgatgatcac-TTAAAcCATTcACAGACACCATA	ataaagg	caagcgtg	gcaa...68...ggcactgagc	tcataatgc
D. Sim	aaatgaag	acttcaatgatgatcac-TTAAAcCATTcACAGACACCATA	ataaagg	caagcgtg	gcaa...68...ggcactgagc	tcataatgc
D. Sec	aaatgaag	acttcaatgatgatcac-TTAAAcCATTcACAGACACCATA	ataaagg	caaac	ctggcaa...68...ggcactgagc	tcataatgc
D. Ere	gaatagag	acttcaatgatgatcattTTAAAcCATTcACAGACACCATA	ataaagg	caagcgtg	gcaa...68...ggcactgagc	tcataatgc
D. Ana	caacaagt	gcttcaatgatgataactTTAAAcCATTcACAGACAC	catataaaa	agtc	caagcgtg----.72...ggcactgagc	tcactcttt
D. Gri	gtattgcc	cttgcaagtgatgataat-TTAAAcCATTcACAGACAC	catataaaa	agtc	caagcgtg----.72...ggcactgagc	tcataaccta
D. Per	gcatgggg	acttcaatgatgatcac-TTAAAcCATTcACAGACAC	catataaaa	agtc	gtag----.72...ggcactgagc	tcataatgc
D. Pse	gcatgggg	acttcaatgatgatcac-TTAAAcCATTcACAGACAC	catataaaa	agtc	gtag----.72...ggcactgagc	tcataatgc
D. Wil	aaaaaaat	aattcaatgatgatcac-TTAAAcCATTcACAGACAC	cataataaa	agtc	taaatctg----.72...ggcactgagc	tcatttttc
D. Yak	aaatgaag	acttcaatgatgatcac-TTAAAcCATTcACAGACAC	catataaaa	agtc	caagcgtg----.72...ggcactgagc	tcgtaatgc
		* ** ***** *	*****	** *	*	***** *

id=71184 gene=FBgn0086603 name=snoRNA:Or-CD2 segment=chr2R.4984535_4984674.1 type=EN

D. Mel	ccataagc	aaaactaaaatt...104...-ctcgtaatgc-cgcta	atgct--TGTGTGTTTGTcaAATGtaTTAA	-caaaact	tatttaacaatca...1308...tcgatttctg	cgcggttc	
D. Sim	ccaaaagc	aaaactaaaatt...104...-ctcgtaatgc-cgcta	atgct--TGTGTGTTTGTcaAATGtaTTAA	-caaaact	tatttaacaatca...1337...tcgatttctg	cgcggttc	
D. Sec	ccaaaagc	aaaactaaaatt...104...-ctcgtaatgc-cgcta	atgct--TGTGTGTTTGTcaAATGtaTTAA	-caaaact	tatttaacaatca...1332...tcgatttctg	cgcggttc	
D. Ere	ccaaaagc	aaaactaaaatt...109...-ctcgtaatgc-cgcta	atgct--TGTGTGTTTGTcaAATGtaTTAA	-caaatct	tatttaacaatcat...1278...tcgatttctg	cgcggttc	
D. Ana	acccaaat	aaaactaaaact...96...-atgttttaagactg	tttatt---GTGTttTTGTcaAATG-tccagg	caaaat-aattaaca-----	.454...ttgatttctg	ctcgctca	
D. Gri	ccaaaaga	aaaactttgttc...98...-tttagataatatt	tatgctt---GTGTttTTGTcaAATG-ttAA	ccaaag	ttaatttcgaaatt---.983...tcattttcag	ctcggttc	
D. Per	ccaaaagc	agaactaaaatt...109...-tgtagagccg	cctaatagcct---GTGTttTTGTcaAATG	tcTTAA	-caaaatcaat	taataatctatct...1453...caattctcg	cgcggttc
D. Pse	ccaaaagc	agaactaaaatt...109...-tgtagagccg	cctaatagcct---GTGTttTTGTcaAATG	tcTTAA	-caaaatcaat	taataatctatct...1482...caattctcg	cgcggttc
D. Wil	taaaaaaa	aaaacccaaag...172...-taatttatg	ctaatagcctttTTGTttTTGTcaAATG	ttTTAA	-caaaat	taagtcattttgccc...1755...tgatttctg	cgcggttc
D. Yak	ccaaaagc	aaaactaaaatt...124...-gtaatgc-cg	taatagcctttt---GTGTttTTGTcaAATG	taTTAA	-caaaact	tatttaacaatca...1239...tcgatttctg	cgcggttc
	**	** *	*	**	** *	** *	

id=40442 gene=FBgn0001316 name=klar segment=chr3L.441080_442578.-1 type=IN

Figure 323: CS=12



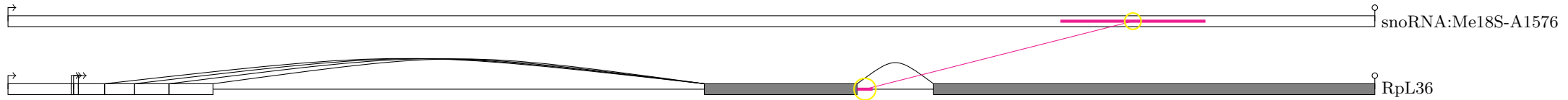
D.Me1	aaatgaag	atttcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	gtcaagcgctggcaatcttc	----	..63..	ggcactgagcctt	cataatgc
D.Sec	aaatgaag	acttcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	gtcaaacctctggcaatcttc	----	..63..	ggcactgagcctt	cataatgc
D.Ere	gaatagag	acttcaatgatgatcattttaaaccattcac	AGACaCCATaTAAAG	gtcaagcgctgacaatcttc	----	..63..	ggcactgagcctt	cataatgc
D.Ana	cacagaat	gcttcaatgatgataactttaaaccattcac	AGACaCCATaTAAAG	gtcaagcgctgacaacttc	----	..63..	ggcactgagcctt	cactcttt
D.Gri	gtattgcc	cttgcaatgatgataa-tttaaaccattcac	AGACaCCATaTAAAG	gtcaagcgctgacaatcttc	----	..63..	ggcactgagcctt	tataccta
D.Per	gcatgggg	acttcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	gggtgagacaaacttcttca	..59..	ggcactgagcctt	catatacc	
D.Pse	gcatgggg	acttcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	aaagttagacaaacttcttc	..60..	ggcactgagcctt	catatacc	
D.Vir	ctattgca	tttgcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	gttaagctctggcaacttc	----	..63..	ggcactgagcctt	tacactta
D.Wil	aaaaaaat	aattcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	aaatcttgataagcttcttc	..60..	ggcactgagcctt	tatttttc	
D.Yak	aaatgaag	acttcaatgatgatca-cttaaaccattcac	AGACaCCATaTAAAG	gtcaagcgctgacaatcttc	----	..63..	ggcactgagcctt	cgtaatgc
			* * * * * *				* * * * *	

id=71184 gene=FBgn0086603 name=snoRNA:Or-CD2 segment=chr2R.4984535_4984674.1 type=EN

D.Me1	tcgaacag	gtaagcagcaga...100...	---atcgtaaaattt-gaaaacaa-	TTTTAATGGGTTT	-tcatttcgctg-acgctgaca-	...1206...	tcgctttttcag	gaattcca
D.Sec	tcgaacag	gtaagcagcaga...97...	---atcgtaaaattt-gaaaacaa-	TTTTAATGGGTTT	-tcatttcgctg-acgctgaca-	...1215...	cgctttttcag	gaattcca
D.Ere	tcgaacag	gtaagcagcaga...92...	---atcgtaaaattt-gaaaacaa-	TTTTAATGGGTTT	-tcatttcgctg-acgctgctc-	...1261...	tcgctttcttag	gaattcca
D.Ana	tcgaacag	gtaagcagggga...138...	---atcgtaaaattt-gaaaacaa-	TTTTAATGGGTTT	-tcatttcgacg-gcgactacg-	...1281...	ctttctccag	gaattcca
D.Gri	tcgaacag	gtaaacagccag...198...	atacttgc---ttttgaaaacga-	TTTTAATGGGTTT	-tcatttcattt-tcgactgt-	...1529...	caacaattttag	gaattcca
D.Per	ttgaacag	gtaaggccaatg...137...	-gtctcgtaaaatttcgaaaa-	CAATTTTAAATGGGTTT	-ccacttcgacacagcagc-	...1187...	cgttccttgcag	gaattcca
D.Pse	ttgaacag	gtaaggccaatg...138...	-tctcgtaaaatttcgaaatc-	AATTTTAAATGGGTTT	-ccacttcgacacagcagc-	...1178...	cgttccttgcag	gaattcca
D.Vir	tcgaacag	gtaaacagcaat...224...	cggattgc---ttttgaaaacaa-	TTTTAATGGGTTT	-tcatttcattt-tcgactgt-	...1728...	tccaactttcag	gaattcca
D.Wil	ttgaacag	gtaaacagcaaga...106...	-cgatcgtaaaattt-gaaaac-	AATTTTAAATGGGTTT	ttcattttg-a-aaggcgacac-	...1683...	tttattgatag	gaattcca
D.Yak	tcgaacag	gtaagcagcaga...103...	---atcgtaaaattt-gaaaacaa-	TTTTAATGGGTTT	-tcatttcgctg-acgctgaag-	...1285...	tcgcttattcag	gaattcca
			* * * * * *				* * * * *	

id=65592 gene=FBgn0002526 name=LanA segment=chr3L_6208820_6210202_-1 type=IN

Figure 324: CS=12



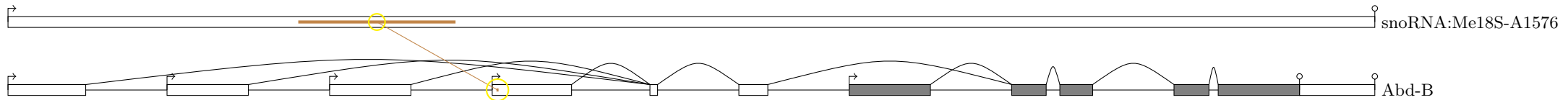
D. Mel	tgttatgc	ctcaaatgatga---	47...	-ttttcagtgccctggtatat---	ATTTGTTCa-TTTA-	agatgattcggcgatctgatg	gcatataa
D. Sim	tggatg	ctcaaatgatga---	47...	-ttttcagtgccctggtatat---	ATTTGTTCa-TTTA-	agatgattcggcgatctgatg	gcatatta
D. Ere	tgttatgc	ctcaaatgatga---	47...	-ttttcagtgccctggtatat---	ATTTGTTCa-TTTA-	agatgattcggcaatctgatg	gcatatta
D. Ana	taaaatgc	ctcatatgatga---	49...	-ttcaatgccttggtgaacta-	TATTTGTTC-	TTTAaagatgaaacggcaacctgatg	gcatatat
D. Gri	tctaatac	cacaaatgatga---	46...	-tctttcaatgcaatctcga-	CAATATTTGTTC-	TTTAaagatgaaacggcaatctgatg	gcttatat
D. Moj	tattctgc	cacaaatgatga---	49...	-ttcaatgtaatatcgtacaa-	TATTTGTTC-	TTTAaagatgaaacggcaatctgatg	gcacactt
D. Vir	gttatggc	cacaaatgatga---	49...	-ttcgacgtaatttcgaacaa-	TATTTGTTCat	TTTAaagatgaaacggcaatctgatg	gcacaatt
D. Wil	---agtgt	tgcaaatgatgagac...	51...	----caatgttaattgaactata	ATTTGTTCat	TTTAaagatgaaacggcaatctgatg	gcaacttt
D. Yak	tggatg	ctcaaatgatga---	47...	-ttttcagtgccctggtatat---	ATTTGTTCa-TTTA-	agatgattcggcaatctgatg	gcatactg
		* *****		* * * *	***** **** *****	*** *****	** ***** **

id=14285 gene=FBgn0025881 name=snoRNA:Me18S-A1576 segment=chr2L.9894795.9894907.-1 type=EN

D. Mel	tGAAGAAC	gtAAGT	-----	ttgcacgccggtttattcttt-gtttacacggacgactctact-----	cttaaatt-----	ccttg-----	cag	atccaaac
D. Sim	tGAAGAAC	gtAAGT	-----	ttgcacgccggttaggcttt-gtttac---gcgactctact-----	c-aaaatg-----	ccttg-----	cag	atccaaac
D. Ere	tGAAGAAC	gtAAGT	-----	ttgcactgcacggcc---cgacttt-gtttacgcgctgaccaaact-----	ctaattgt-----	ccttg-----	cag	atccaaac
D. Ana	tGAAGAAC	gtAAGTA	-----	aactaattcc-----	ttat-gtttataaattaatt--acttatc-----	caaatgtgttttcgccttta-----	cag	atccagac
D. Gri	tGAAGAAC	gtAAGTGTG	Gagaataataggcaaaaaaataaacttgcatttttggttt-acattt-gattgattgattaacttttgccttt-----	cttttcacgcatag	attcaaac			
D. Moj	tGAAGAAC	gtAAGTG	-----	aaaaatcaa-taatatccctattg-gcattt-gtttac---attatgtttgacattg-----	cattt-----	gcag	attcaaac	
D. Vir	tGAAGAAC	gtAAGTA	-----	aaacaatttaaaatttcgatagacattt-gtttacatatacggtaattgtaatt-----	tttt-----	cag	attcaaac	
D. Wil	tGAAGAAC	gtAAGT	-----	gtgctgccaatacatgtctcaa---acgtttaaactacataaacttattatctaaaaa-----	atttg-----	tag	attcaaac	
D. Yak	tGAAGAAC	gtAAGT	-----	ttgcacgcc---cgacttt-gtttacgcgctcctctgactccttacttactcatgtg-----	ccttg-----	cag	atccaaac	
	*****	*****		* * *		**	**	** ** *

id=128592 gene=FBgn0002579 name=Rpl36 segment=chrX.522720.522783.-1 type=IN

Figure 325: CS=11.34



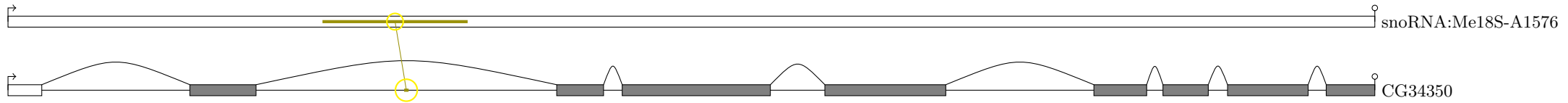
D.Mel	tgttatgc	ctcaaatgatgaaca	GATGACGAGACTGAAG	gaaca-aattctcgacttggc...	49...	ggcgatctgatg	gcatataa
D.Sim	tggatg	ctcaaatgatgaaca	GATGACGAGACTGAAG	gaaca-aattctcgacttggc...	49...	ggcgatctgatg	gcatatta
D.Sec	tggatg	ctcaaatgatgaaca	GATGACGAGACTGAAG	gaaca-aattctcgacttggc...	49...	ggcgatctgatg	gcatatta
D.Ere	tgttatgc	ctcaaatgatgaaca	GATGACGAGACTGAAG	gaacg-aattctcgactcggc...	49...	ggcaatctgatg	gcatatta
D.Ana	taaaatgc	ctcatatgatgagac	TGATGACGAGACTGAAG	gaaca-ttttctcgactctgc...	53...	ggcaacctgatg	gcatatat
D.Gri	tctaatac	cacaaatgatgatac	GATGACGAGACTGAAG	aaaca-ttttctcggttttgt...	53...	ggcaatctgatg	gcttatat
D.Per	tgcaatgc	cacaaatgatgaaac	TGATGACGAGACTGAAA	gaacatttttctcgacttaa...	53...	ggcaatctgatg	gcatttaa
D.Vir	gttatg	cacaaatgatgaaac	GATGACGAGACTGAAG	gaaca-ttttctcgattttat...	53...	ggcaatctgatg	gcacaatt
D.Yak	tggatg	ctcaaatgatgaaca	GATGACGAGACTGAAG	gaacg-aattctcgacttggc...	49...	ggcaatctgatg	gcatactg
		*	**	*****	**	*****	**

id=14285 gene=FBgn0025881 name=snoRNA:Me18S-A1576 segment=chr2L.9894795.9894907.-1 type=EN

D.Mel	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--gcatg	cgcatg	tcg	cggttcg--...	424...	ttattaaaggcg	gtgagttc
D.Sim	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--gcatg	cgcatg	tcg	cggttcg--...	437...	tcattaaaggcg	gtgagttc
D.Sec	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--gcatg	cgcatg	tcg	cggttcg--...	436...	tcattaaaggcg	gtgagttc
D.Ere	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--gcatg	cgcatg	tcg	cggttcg--...	434...	tcattaaaggcg	gtgagttc
D.Ana	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--catg	cgcatg	tcg	cggttcg--...	571...	ttcttcggggtg	gtgagttc
D.Gri	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	tcg	cgcatg	tcg	cggttcg--...	565...	ttatctagcaac	ggtatcaa
D.Per	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--catg	cgcatg	tcg	cggttcg--...	515...	tatcagagtcg	ccctatcc
D.Vir	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	tcg	cgcatg	tcg	cggttcg--...	528...	cgctcagagtcg	gtgagttc
D.Yak	ttagtg	agttgctctctaaca	TTTCGGAGTCGTTATC	--gcatg	cgcatg	tcg	cggttcg--...	456...	tcattaaaggcg	gtgagttc
		*****	*****	*****	*	*	*			

id=36000 gene=FBgn0000015 name=Abd-B segment=chr3R.12769504.12769991.-1 type=A5

Figure 326: CS=12.42



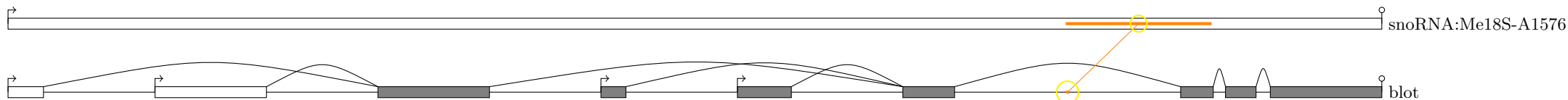
D. Mel	tggtatgc	ctcaaatgat	GAAACaGATGACGAGACTGAA	ggaaca-aattctcgacttgg...50...ggcgatctgatg	gcatataa
D. Sim	tggtatgc	ctcaaatgat	GAAACaGATGACGAGACTGAA	ggaaca-aattctcgacttgg...50...ggcgatctgatg	gcatatta
D. Sec	tggtatgc	ctcaaatgat	GAAACaGATGACGAGACTGAA	ggaaca-aattctcgacttgg...50...ggcgatctgatg	gcatatta
D. Ere	tggtatgc	ctcaaatgat	GAAACaGATGACGAGACTGAA	ggaacg-aattctcgactcgg...50...ggcaatctgatg	gcatatta
D. Ana	taaatgc	ctcatatga	TGAGACTGATGACGAGACTGAA	ggaaca-ttttctcgactctg...54...ggcaacctgatg	gcatatat
D. Gri	tctaatac	cacaaatgat	GATActGATGACGAGACTGAA	gaaaca-ttttctcggtttg...54...ggcaatctgatg	gcttatat
D. Moj	tattctgc	cacaaatga	TGAGACTGATGACGAGACTGAA	gggaca-ttttctcgattga...54...ggcaatctgatg	gcacactt
D. Per	tgcaatgc	cacaaatgat	gaaactGATGACGAGACTGAA	agaacatttttctcgact-ta...54...ggcaatctgatg	gcatttaa
D. Pse	tacaatgc	cacaaatgat	gaaactGATGACGAGACTGAA	agaacatttttctcgact-ta...54...ggcaatctgatg	gcatttaa
D. Vir	gttatggc	cacaaatga	TGAAACTGATGACGAGACTGAA	ggaaca-ttttctcgatttta...54...ggcaatctgatg	gcacaatt
D. Yak	tggtatgc	ctcaaatgat	GAAACaGATGACGAGACTGAA	ggaacg-aattctcgacttgg...50...ggcaatctgatg	gcatactg
		*	** * * * * * * *	** * * * * *	** * * * * * *

id=14285 gene=FBgn0025881 name=snoRNA:Me18S-A1576 segment=chr2L.9894795.9894907.-1 type=EN

D. Mel	agcacagt	gtaagtaccac...	2033...	--at	tttctgttct-cggcataag	TTCGtGTCTTgaGTCATC	GTTTTtggg	ccgctgaagcatg	-----	...1334...	tgctattgacag	tccaatct					
D. Sim	agcacagt	gtaagtaccac...	1859...	--at	tttctgttct-tgccttaag	TTCGtGTCTTgaGTCATC	GTTTTtggg	ccactgaggcatg	-----	...1313...	cgctattgacag	tccaatct					
D. Sec	agcacagt	gtaagtaccac...	1876...	--at	tttctgttct-cggccttaag	TTCGtGTCTTgaGTCATC	GTTTTtggg	ccactgaggcatg	-----	...1338...	cgctattgacag	tccaatct					
D. Ere	agcacagt	gtaagtaccga...	1900...	---	tctcggctctcggcgcaag	TTCGtGTCTTgaGTCATC	GTTTTtggg	cctctgaggcgtg	-----	...1273...	cgctgtgacag	tccaatct					
D. Ana	agcacagt	gtaagtattga...	1578...	...	ctcaactggcgcg-cagcca--g	TTCGtGTCTTgaGTCATT	GTTTTTg	ggacgcttctgtggcataaa	-----	...1136...	ttaaattggcag	tccaatct					
D. Gri	agcacagt	gtaagtaaccag...	2059...	...	tttgtttggttct-tggcca--g	TTCGtGTCTTaaGTCATT	GTTTTG	----	ttg	cgctaccatcgcatatt	-----	...1295...	at	taattacag	ttcaatcc		
D. Moj	agcgcagt	gtaagtagccag...	2170...	...	tttgttgagtct-tggcca--g	TTCGtGTCTTaaGTCATT	GTTTTG	-----	cg	tgctcatacaatata	...	1378...	tt	gcttcgag	ttcaatcc		
D. Per	agcccagg	gtaagtttccc...	2099...	...	tcccatatgcagg-cgcca--g	TTCGtGTCTTgaGTCATT	---	cgcttgggc	---	tctg	ccgct	-----	...1108...	g	gttctggacag	tccaatcg	
D. Pse	agcacagt	gtaagtatccg...	2044...	...	tcccatatgcagg-cgcca--g	TTCGtGTCTTgaGTCATT	---	cgcttgggc	---	tctg	ccgct	-----	...1095...	t	ctctggacag	tccaatcg	
D. Vir	agcgcagt	gtaagtagctag...	2044...	---	tg	ttgggttct-tggccacgg	TTCGtGTCTTaaGTCATT	GTTTTG	-----	cg	tgctcaagcaatata	...	1283...	t	g	tttcttag	ttcaatcc
D. Yak	agcacagt	gtaagtacccaa...	1617...	---	tctcggctctcggcagcaag	TTCGtGTCTTgaGTCATC	GTTTTTtggg	cctctgaggcgtg	-----	...1237...	cgctattcagag	tccaatct					
	*** **	*****			*	*	*****	*****		*	*	** * * * * *					

id=111138 gene=FBgn0085379 name=CG34350 segment=chr2R.4885434.4888888.-1 type=IN

Figure 327: CS=10.56



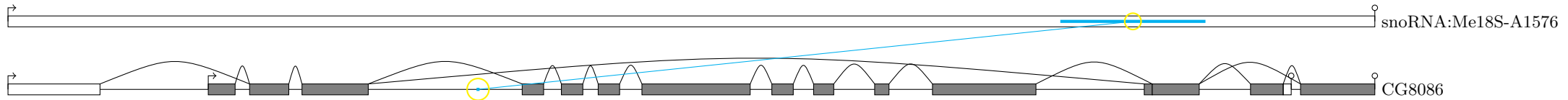
D.Mel	tggtatgc	ctcaaatgatga---.44..tattttcagtgccctgcta---TATATTGTTTCATTTA	-agatgattcggcgatctgatg	gcatataa
D.Sim	tggtatgc	ctcaaatgatga---.44..tattttcagtgccctgcta---TATATTGTTTCATTTA	-agatgattcggcgatctgatg	gcatatta
D.Sec	tggtatgc	ctcaaatgatga---.44..tattttcagtgccctgcta---TATATTGTTTCATTTA	-agatgattcggcgatctgatg	gcatatta
D.Ere	tggtatgc	ctcaaatgatga---.44..tattttcagtgccctgcta---TATATTGTTTCATTTA	-agatgattcggcgatctgatg	gcatatta
D.Ana	taaaatgc	ctcatatgatga---.50..-----tcaatgacctgttgaactat-ATTGTTCTTTA	aaagatgaaccggcaacctgatg	gcatatat
D.Gri	tctaatac	cacaaatgatga---.48..-----tttcaatgcaatctcgaaca-ATATTGTTCTTTA	aaagatgaaccggcaacctgatg	gcttatat
D.Moj	tattctgc	cacaaatgatga---.48..-----tttcaatgtaatatcgtaca-ATATTGTTTCATTTA	aaagatgaaccggcaacctgatg	gcacactt
D.Vir	gttatggc	cacaaatgatga---.51..-----cgacgtaatttcgaacaata-TTGTTCATTTA	aaagatgaaccggcaacctgatg	gcacaatt
D.Wil	---agtgt	tgccaatgatgagac...52..-----aatgtttaattgaactataaTTGTTCATTTAAGAT	gatttggcg-tctgatg	gcaacttt
D.Yak	tggtatgc	ctcaaatgatga---.45..-atttttcgggtgcccctgtaa---ATATTGTTTCATTTA	-agatgattcggcgatctgatg	gcatactg
		* * * * *	* * * * *	** * * * *

id=14285 gene=FBgn0025881 name=snoRNA:Me18S-A1576 segment=chr2L.9894795.9894907.-1 type=EN

D.Mel	tttcaaag	gtgagtttcgac...1079...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTATA	aaccaaaacaattgtaacg...1717...cttatattt-cag	gagcctgc
D.Sim	tttcaaag	gtgagtttcgat...1069...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTATA	aaccaaaacaattgtaacg...1671...tttatattt-cag	gagcctgc
D.Sec	tttcaaag	gtgagtttcgat...1075...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTATA	aaccaaaacaattgtaacg...1649...tttatattt-cag	gagcctgc
D.Ere	tttcaaag	gtgagtttcgac...1091...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTATA	aaccaaaacaattgtaacg...1642...cttatatttccag	gagcctgc
D.Ana	cttcaaag	gtgagtactgct...1033...--gagacgtttaaggcaaattc--TAAATGAACaaAAGT	-taaccaaaacaattgtaa...1327...-ttttcccatag	gagcctgc
D.Gri	attcaaag	gtaagcgacaac...1045...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTAT	-aaaccaaaacaacgaaaa...492...-cactctttacag	gagccagc
D.Moj	tttcaaag	gtaagcaagg...1147...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTAT	-aaaccagaaaaacaaggga...981...-aatctcaacag	gggccagc
D.Vir	attcaaag	gtaagcaacagg...1035...--gagacgtttaaggcaaattc--TAAATGAACAAA-----	aagtataaaccaaatgaaa...869...-tatttcgcacag	gggcctgc
D.Wil	attcaaag	gtaagtgagaac...551...gccaagcacaaagagccaaATCTCTAAATGAACAAA-----	aacaacaacaacaaaagaa...2191...-tatttttacag	gagcctgc
D.Yak	tttcaaag	gtgagtttcgac...1084...--gagacgtttaaggcaaattc--TAAATGAACaaAAGTATA	aaccaaaacaattgtaac...1630...-tgatatttccag	gagcctgc
	*****	** **	* * * * *	** * * * *

id=68499 gene=FBgn0027660 name=blot segment=chr3L.17391833.17394710.-1 type=IN

Figure 328: CS=10.8



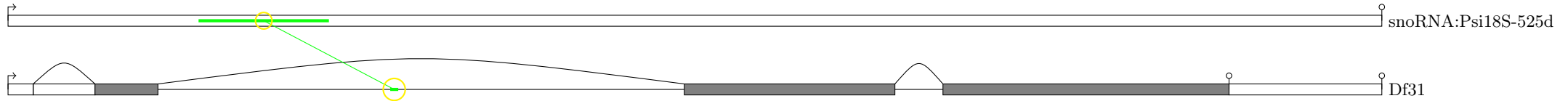
D.Mel	tgttatgc	ctcaaatgatga---.47...ttttcagtgccctggtatat---ATTGTTCaTTTA	-agatgattcggcgatctgatg	gcatataa
D.Sim	tggtatgc	ctcaaatgatga---.47...ttttcagtgccctggtatat---ATTGTTCaTTTA	-agatgattcggcgatctgatg	gcatatta
D.Sec	tggtatgc	ctcaaatgatga---.47...ttttcagtgccctggtatat---ATTGTTCaTTTA	-agatgattcggcgatctgatg	gcatatta
D.Ere	tgttatgc	ctcaaatgatga---.47...ttttcagtgccctggtatat---ATTGTTCaTTTA	-agatgattcggcaatctgatg	gcatatta
D.Ana	taaaatgc	ctcatatgatga---.50...---tcaatgccttggtgaactat-ATTGTTCcTTTA	aagatgaacggcaacctgatg	gcatatata
D.Gri	tctaatac	cacaaatgatga---.50...---tcaatgcaatctcgaacaat-ATTGTTCcTTTA	aagatgaacggcaatctgatg	gcttatata
D.Moj	tattctgc	cacaaatgatga---.50...---tcaatgtaatatcgtacaat-ATTGTTCaTTTA	aAGATGaatcggcaatctgatg	gcacactt
D.Vir	gttatggc	cacaaatgatga---.50...---tcgacgtaattcgaacaat-ATTGTTCaTTTA	AAGATGaatcggcaatctgatg	gcacaatt
D.Wil	---agtgt	tgccaatgatgagac...51...---caatgtttaattgaactata-ATTGTTCaTTTA	AAGATGaatcggcg-tctgatg	gcaacttt
D.Yak	tggtatgc	ctcaaatgatga---.47...ttttcagtgccctggtatat---ATTGTTCaTTTA	-agatgattcggcaatctgatg	gcataactg
		* * * * *	* * * * *	* * * * *

id=14285 gene=FBgn0025881 name=snoRNA:Me18S-A1576 segment=chr2L_9894795_9894907_-1 type=EN

D.Mel	gataccag	gtgagtctcggg...1295...-----gcgccacgctacactttcggTAGAGGAACtaAAAT	cgaacacgatcagggcacac...172...tccatccgcag	ctcctggc
D.Sim	gataccag	gtgagtctcggg...1348...-----gcgccacgctacactttcggTAGAGGAACtaAAAT	cgaacacgatcagggcacac...185...tccattcgcag	ctcctggc
D.Sec	gataccag	gtgagtctcggg...1325...-----gcgccacgctacactttcggTAGAGGAACtaAAAT	cgaacacgatcagggcacac...178...tccatccgcag	ctcctggc
D.Ere	gataccag	gtgagtctcggg...1259...-----gcgccacgctacactttcggTAGAGGAACtaAAAT	cgaacacgatcagggcacac...171...tccatccgcag	ctccaggc
D.Ana	gattccag	gtgagtttcagg...1136...-----gccccacgctacactttcggTAGAGGAACtaAAAT	ccaacacgaccagggcacac...216...tccattcacag	ctcctggc
D.Gri	aataccag	gtaagtcgagac...1807...-----gcgccagttacactttcggTAGAGGAACtaAAAT	ccaacacgatcagcatacac...1935...gtaatacacctg	ctccgggt
D.Moj	gataccgg	gtaagtcgcaac...1730...aaagaattcgccacgtttcaCATTggTAGAGGAACtaAAAT	ccaacacgatcagcatacac...147...tctattccacag	ctcctggc
D.Vir	gataccgg	gtaagtcgaggc...1351...aaagaattcgccacgtttcaCATTggTAGAGGAACtaAAAT	ccaacacgatcagcatacac...138...ttgttccacag	ctcctggc
D.Wil	aataccag	gtaagtcgcaaac...949...aaagaatcgccacgtttcaCATTggTAGAGGAACtaAAAT	ccaacacgatcagggcacac...121...tcttcttcgcag	ctcctgggt
D.Yak	gataccag	gtgagtttcagg...1369...-----gcgccacgctacactttcggTAGAGGAACtaAAAT	cgaacacgatcagggcacac...191...tccattcgcag	ctcctggc
	** ** *	** ** *	* * * * *	* * * * *

id=55480 gene=FBgn0032010 name=CG8086 segment=chr2L_8250682_8252227_-1 type=IN VIEW

Figure 329: CS=10.8



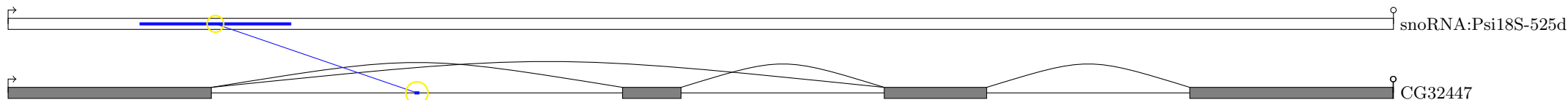
D. Mel	-----taaatatt	tggg---tggagttAAAGTGGCAtATTT-----tataactttcctttgatctg-----...80...-tcgtgcaca----act	tcaaaatg
D. Sim	-----taaatatt	---CGGCTGGAGttAAAGTGGCAtATTT-----tataactttcctttgatctg-----...80...-tcgtgcaca----act	tcaaaatg
D. Sec	-----taaatatt	---CGGCTGGAGttAAAGTGGCAtATTT-----tataaatttcctttgatctg-----...80...-tcgtgcaca----act	tcaaaatg
D. Gri	-----tggt	atattccgtGGAGtcAAAGTGGCAtATTTcaGAATta-----tcctctgatttgtgtctc...71...-tcgtgcaca----gtt	tctttaat
D. Per	aataggccttaaaactgtttacagtatt	gttttcc-tggagccAAAGTGGCAtATTT-----ctgaacaaaccttcagattt-----...108...-tataatatt---gtt	ttcctgga
D. Pse	-----atatt	gtcttcc-tggagccAAAGTGGCAtATTT-----ctgaaccaaccttcagattt-----...85...-gtacaatagacc	tttaactg
D. Vir	-----caatcgatccaatctgtt	atacccttcggagtcAAAGTGGCAtATTT-----tgggaatttaaccaaattg-----...252...ctgttatacc---ct	taggagtc
D. Wil	-----caagtctttagcaactgtt	atac---GGAGccAAAGTGGCAtATTTAG---tttcca-ttcttacaatttgt-----...79...-ttgtgtaca---atc	tcctaaaa
D. Yak	-----cgaacatt	tggg---tggagttAAAGTGGCAtATTT-----taaaaaattccaatgatctg-----...80...-tcgtgtaca----act	tgtaaat
	**	*** ***** *	*

id=49901 gene=FBgn0083035 name=snoRNA:Psi18S-525d segment=chr2L.20419145.20419281.1 type=EN

D. Mel	caaaagaa	gtgagtactttg...366...---tgtatgctgtgagcattc-----AAGTTGCCGctCTTT---tcttgtgctgttt-catttca-----...1012...tatcaccacag	tgagacc
D. Sim	caaaagaa	gtgagtactttg...355...---tgtatgctgtgagcattc-----AAGTTGCCGctCTTTTTTGTGCTG---ctt-tatttcagctgtctttg...974...tatcaccacag	tgagaccg
D. Sec	caaaagaa	gtgagtactttg...355...---tgtatgctgtgagcattc-----AAGTTGCCGctCTTTTTTGTGCTG---ctt-tatttcagctgtctttg...957...tatcaccacag	tgagaccg
D. Gri	aaaaagaa	gtgagtaatttt...481...gcgctgcaactgtgtgaagc---ATTCAAGTTGCCGctCTTTTTT---tttttctgtttgtttcag-----...1080...ttcccttcgag	cgagacc
D. Per	cagaaaaa	gtgagtaatatt...475...---tgtatgtatgtgtatgtattc---AAGTTGCCGctCTTT---tctcgtgccg---tttcagcctg---...1270...tttctgtctacag	tgagacc
D. Pse	cagaaaaa	gtgagtaatatt...468...---atgtatgtatg-gtagtattc---AAGTTGCCGctCTTT---tctcgtgccg---tttcagcctg---...1272...tttctgtctacag	tgagacc
D. Vir	aaaaagaa	gtgagtaatatt...483...---tgcattctgtgtgtagcattt---AAGTTGCCGctCTTT---tatatatatatatattttt-----...1072...ttcatatcacag	cgagacc
D. Wil	caaaaaaa	gtgagtaatgta...525...---ag---tgtgtatagcattcgcatTTAAGTTGCCGctCTTTTTTCagctgtccgtt-tgtttaaag-----...1292...taattactacag	tgagacc
D. Yak	caaaaaaa	gtgagtacttag...347...---tgtatgctgagtg-tgtttc---AAGTTGCCGctCTTT---tcatgctgttt-tatttcagc-----...1062...tataaccaacag	tgagacc
	* ** *	***** * * *	*****

id=101785 gene=FBgn0022893 name=Df31 segment=chr2L.21628210.21629666.-1 type=IN VIEW

Figure 330: CS=11.7



D. Mel	-----taaa--TATT	TGGGTGGAGttAAAGtgGCATaTTTTATA-gctttcc-tttgatctgtgtc--...76...-tcgtgcacaa---ct	tcaaaatg
D. Sim	-----taa-----atattcggc-----	---TGGAGttAAAGtgGCATaTTTTATA-actttcc-tttgatctgtgtc--...76...-tcgtgcacaa---ct	tcaaaatg
D. Sec	-----taa-----atattc	---GGCTGGAGttAAAGtgGCATaTTTTATA-aatttcc-tttgatctgtgtc--...76...-tcgtgcacaa---ct	tcaaaatg
D. Gri	-----tggtatattccgt	-----GGAGtCAAAGtgGCATaTTTC-agaattatcc-tctgatttgt-----...76...-tcgtgcacag---tt	tcttaat
D. Moj	-----tGTTATaT	TCTGTGGAGtcAAAGtgGCAT-----attcc-gggatttcctctcga...83...-tcgtgtacac---ct	aaccaat
D. Per	aataggccctaaactgtttacagtattgttttc-----	---TGGAGccAAAGtgGCATaTTTC-tgaaccaaccttcagatttg-----...107...-tataatattg---tt	ttcctgga
D. Pse	-----atattgtcttc-----	---TGGAGccAAAGtgGCATaTTTC-tgaaccaaccttcagatttg-----...84...-gtacaatagacc	tttaactg
D. Vir	-----caatcgatccaatctgttata-ccctt-----	---CGGAGtCAAAGtgGCATaTTTTgggaatttaac--caaatttgt-----...251...ctgttatacc---ct	taggagtc
D. Wil	-----caagtcttagcaactgttata-----	---CGGAGccAAAGtgGCAT-----atttagtttc--attcttaca--...85...-ttgtgtacaa---tc	tcctaaaa
D. Yak	-----cgaa--CATT	TGGGTGGAGttAAAGtgGCATaTTTT-aaaaaattcc-aatgatctgt-----...79...-tcgtgtacaa---ct	tgtaaat
		**** * * * * *	

id=49901 gene=FBgn0083035 name=snoRNA:Psi18S-525d segment=chr2L.20419145.20419281.1 type=EN

D. Mel	tggaggtg	gtaagtccgct...4744...attgccagcgttgcgcc-ca-TGTGAAAaATGCTTTTcTTCCGcCTCGcAATG	ggatggaataatctccgaagc-----...149...tactctc-aaag	agccagac
D. Sim	tggaggtg	gtaagtccgct...4734...attgcgcagcgttgcgcc-ca-TGTGAAAaATGCTTTTcTTCCG-cctcgcaatggaatggaaaa	-----...169...tactctc-aaag	agccagac
D. Sec	tggaggtg	gtaagtccgct...4740...attgcgcagcgttgcgcc-ca-TGTGAAAaATGCTTTTcTTCCGGCT-cgcaatggaatggaacctc	-----...160...tactctc-aaag	agccagac
D. Gri	tggcggag	gtgagttttgtt...4762...-gagtggttggg-catgtgaGAAAATGCTTTTCTTC	---tgccaagaccaagcctgag	tactctc-aaag
D. Moj	cggcgggtg	gtaagtttcct...4797...-gc---gttggtggg-catgtgaaaa-ATGCTTTTcTTCCGctAGAGcGTGGC	-caagcgtcgtagctgcca...101...tactctc-gaag	tacacaca
D. Per	tggaggag	gtaagtccgtct...4759...-gccaacggttggtggc-catgt-GAAAaATGCTTTTcTTCCG-cctccagatgggagggaaaa	-----...147...tactctc-aaag	acccagac
D. Pse	tggaggag	gtaagtccgtct...4760...-gccaacggttggtggc-catgt-GAAAaATGCTTTTcTTCCG-cctccagatgggagggaaaa	-----...146...tactctc-aaag	acccagac
D. Vir	tggcggag	gtaagttttgt...4808...-caatgc---attgtggg-catgtg-AAAAATGCTTTTcTTCCG-cctagagcgcagcagcag	-----...99...tactctc-gcag	cacacaca
D. Wil	tggaggag	gtaagttcaaac...4660...-gctgttgccatgtgaaaa-ATGCTTTTcTTCCG-cctcgatagagggaaatagag	-----...251...tactctcaaaag	acccagac
D. Yak	tggaggtg	gtaagtccgct...4084...-cccagcgttgcgcc-catgtg-AAAAATGCTTTTcTTCCGCctgAATG	ggttaggaaatctcctagcc-----...813...tactctc-aaag	agccagac
	** * *	** * *	** * * *	***** *

id=64744 gene=FBgn0052447 name=CG32447 segment=chr3L.21690819.21697647.-1 type=IN

Figure 331: CS=10.8



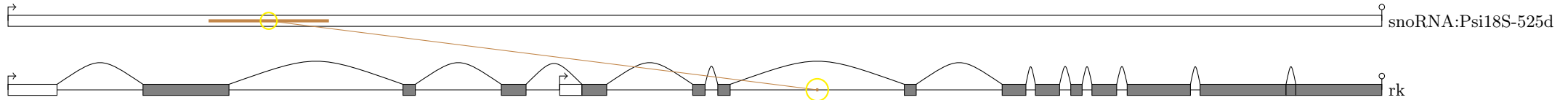
D. Mel	-----ta-----aatatt	tggGTGGagTTAAAGTGGCATATT	ttatagcttccctttgatct-----...81...-tcgtgcaca---act	tcaaaatg
D. Sim	-----ta-----aatatt	cggctggagttaAAGTGGCATATT	ttataacttccctttgatct-----...81...-tcgtgcaca---act	tcaaaatg
D. Sec	-----ta-----aatatt	cggctggagttaAAGTGGCATATT	ttataaattccctttgatct-----...81...-tcgtgcaca---act	tcaaaatg
D. Gri	-----tggt---atattcgg	tgg---AGTCaAAGTGGCATATT	tcagaattatcctctgatct-----...78...-tcgtgcaca---ggt	tcsttaat
D. Moj	-----tggt---atattcgt	tgg---AGTCaAAGTGGCATATT	ccgggatttccctcgcgatct-----...80...-tcgtgtaca---cct	aaccat
D. Per	aataggccttaactgtttacagtattgtt	ttcctggagccaAAGTGGCATATT	tctgaacaaccttcagatt-----...109...-tataatatt---ggt	ttcctgga
D. Pse	-----tggt---atattgct	ttcctggagccaAAGTGGCATATT	tctgaaccaaccttcagatt-----...86...-gtacaatagacc	tttaactg
D. Vir	caatcgatccaatctgtt---ataccctt	cgg---AGTCaAAGTGGCATATT	TGGGaatttaaccaaatgtgtc...248...ctgttatac---cct	taggagtc
D. Yak	-----cg-----aacatt	tggGTGGagTTAAAGTGGCATATT	ttaaaaaattccaatgatct-----...81...-tcgtgtaca---act	tgtaaatt
		* * * * *	* * * * *	

id=49901 gene=FBgn0083035 name=snoRNA:Psi18S-525d segment=chr2L_20419145_20419281_1 type=EN

D. Mel	ctgcaaag	gtaggttcctct...2953...---	gtcatacttttgttgct	AATGT	ctGCCACTTGGCCGT	aatcgatttgcggcaatta...1251...tcccgccgcag	cctttgtg
D. Sim	ctgcaaag	gtaggttcctct...2969...---	gtcatacttttgttgct	AATGT	ctGCCACTTggccgtaatcgatttgcgg-----...1253...ccccgtccgcag	cctttgtg	cctttgtg
D. Sec	ctgcaaag	gtaggttcctct...2923...---	gtcatacttttgttgct	AATGT	ctGCCACTTggccgtaatcgatttgcgg-----...1269...ccccgtccgcag	cctttgtg	cctttgtg
D. Gri	ctgcaagg	gtaagttggtat...2944...---	cgtcatact---ttgtgtgct	AATGT	ctGCCACTTGACT	gtaatcgatttgcggcaat--...1463...tgttcttgcag	cctttgtg
D. Moj	ctgcaagg	gtgagttcgacc...2838...---	cgtcatact---ttgtgtgct	AATGT	ctGCCACTTGACT	gcccgcgatttgcggcaat--...2069...gtttcgttgcag	ccttcgtc
D. Per	ctgcaaag	gtgaggcttccc...3229...---	gtcatacttttgttatt	AATGT	ctGCCACTTgactgtaatcgatttgcgg-----...1682...ttgatttgcag	cctttgtg	cctttgtg
D. Pse	ctgcaaag	gtgaggcttccc...3264...---	gtcatacttttgttatt	AATGT	ctGCCACTTgactgtaatcgatttgcgg-----...1647...ttgatttgcag	cctttgtg	cctttgtg
D. Vir	ctgcaagg	gtgagttgctc...3409...ctc	gtcatacttttgtttg	CCTAATGT	ctGCCACTTGACT	gtaagcgcgatttgcggcaat--...1495...attcgttgcag	cctttgtc
D. Yak	ctgcaaag	gtaggttccct...2796...---	gtcatacttttgttgct	AATGT	ctGCCACTTGGCCGT	aatcgatttgcggcaatta...1400...cctcgcgcag	cctttgtg
	***** *	** *	*****	*****	*****	*****	****

id=112487 gene=FBgn0027602 name=CG8611 segment=chrX_17309193_17313480_-1 type=IN

Figure 332: CS=10.8



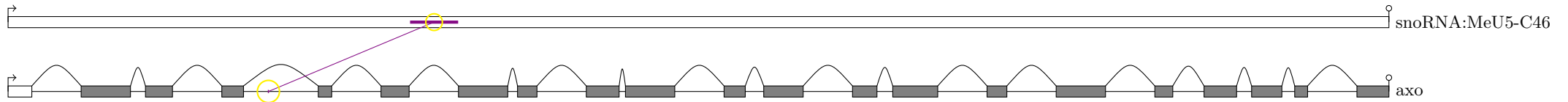
D.Mel	-----taaatatt	tggg-tggagtta	AAGTgGCATATTT	---tatagctttcct-ttgatctg---	...80...-tcgtgcaca---	act	tcaaaatg	
D.Sim	-----taaatatt	cggc-tggagtta	AAGTgGCATATTT	---tataactttcct-ttgatctg---	...80...-tcgtgcaca---	act	tcaaaatg	
D.Sec	-----taaatatt	cggc-tggagtta	AAGTgGCATATTT	---tataaatcttct-ttgatctg---	...80...-tcgtgcaca---	act	tcaaaatg	
D.Gri	-----tgttata	ttccgtggagtca	AAGTgGCATATTT	---cagaattatcct-ctgatttg---	...77...-tcgtgcaca---	gtt	tctttaat	
D.Per	aataggccttaactg	tttacagattggt	AAGTgGCATATTTCTG	---aacaaaccttcagattt	tg---...105...-tataatatt---	gtt	ttcctgga	
D.Pse	-----atattgtc	ttcc-tggagcca	AAGTgGCATATTTCTG	---aaccaaccttcagattt	tg---...82...-----	gtacaatagacc	tttaactg	
D.Vir	-----caatcgatcca	atctgttata	cccttcggagtcaAAGTgGCATATTT	TG ggaattaac---caaat	ttgtg---...250...ctgttatacc---	ct	taggagtc	
D.Wil	--caagtctttagca	-----actggt	atac--ggagcca	AAGTgGCATATTTaGTTT	---ccattcttacaattt	gtgtc...76...-ttgtgtaca---	atc	tcctaaaa
D.Yak	-----cgaacatt		tggg-tggagttaAAGTgGCATATTT	---taaaaaattcca-atgatctg---	...80...-tcgtgtaca---	act	tgtaaat	
		*	**** *****	** **	*		*	

id=49901 gene=FBgn0083035 name=snoRNA:Psi18S-525d segment=chr2L.20419145.20419281.1 type=EN

D.Mel	aaagtttt	gtaagtagcaag...669...gtat	ttcagcag--ccacagac-----	AAAT--ATGCaaATTT	atgtttgtga--ctggcagagtc...	1000...ctccctttgcag	agagctgg
D.Sim	aaagtttt	gtaagtagcaag...658...-tatt	cca-cagaccacagac-----	AAAT--ATGCaaATTT	atgtttgtgg--ctggcagagtc...	984...ctccctttgcag	ggaactgg
D.Sec	aaagtttt	gtaagtagcaag...658...-tatt	cca-cagaccacagac-----	AAAT--ATGCaaATTT	atgtttgtgg--ctggcagagtc...	985...ctccctttgcag	agagctgg
D.Gri	aaagtttt	gtaagtaacttt...364...-tat	ggaaca-agctaaaaat-----	AAATgaATGC-aATTT	atatagagca---ggaatctattt...	1448...ttgttttttag	ggaactgg
D.Per	aaagttct	gtaagtaacaaa...710...-ctc	ccctctg-ggcgggacag-----	CAGAcAAAT--ATGCaaATTT	atgtttgtgg--ctgacagactt...	915...cttcctttgcag	ggaactgg
D.Pse	aaagttct	gtaagtaacaaa...708...-ctc	ccctctg-ggcgggacag-----	CAGAcAAAT--ATGCaaATTT	atgtttgtgg--ctgacagactt...	812...cttcctttgcag	ggaactgg
D.Vir	aaagtttt	gtaagtaacca...2028...-----	tcgaggctgcagacgatga-----	CAAAAT--ATGCaaATTT	atgtttgcgg--ctgacagacgt...	1733...tttccttttag	agaactgg
D.Wil	aaagtttt	gtaagtatgcaa...1111...-----	agcaaccagctcttttctgt	AGACAAAT--ATGCaaATTT	atgtttgggggtttgacatg--...	650...tcttattttcag	agagctgg
D.Yak	aaagtttt	gtaagtagcaag...733...-cacc	catcg-agcggcagac-----	AAAT--ATGCaaATTT	atgtttgtgg--ctgacagagtc...	1009...ctcctttgcag	agagctgg
	***** *	*****	* *	**** * * * * *	*	*** **	** ****

id=37528 gene=FBgn0003255 name=rk segment=chr2L.13987890.13989636.-1 type=IN VIEW

Figure 333: CS=10.8



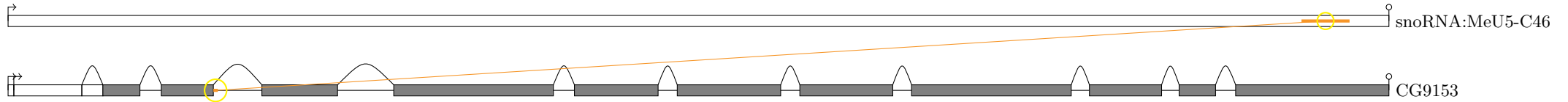
D.Mel	agcccttt	tgcccatgatga----	52	..ctagcaaatctagtttc	CGTTGTAATCTTTGCTG	ctgcactccagaattg	cag...183	..--atctgagcg--	caa	catattgg---	
D.Sim	agcccttt	tgcccatgatga----	52	..ttagcaaatctagtttc	CGTTGTAATCTTTGCTG	ctgcactccagaattg	cag...182	..--atctgagcg--	caa	catataga---	
D.Sec	agcccttt	tgcccatgatga----	52	..ctagcaaatctagtttc	CGTTGTAATCTTTGCTG	ctgcactccagaattg	cag...182	..--atctgagcg--	caa	catataga---	
D.Ere	cacccttt	tgcccatgatga----	52	..ttagcaaatctagtttc	CGTTGTAATCTTTGCTG	ctgcactccagaattg	gcag...183	..--atctgaatg--	caa	catatgta---	
D.Gri	cctggttt	tgagtgaagcaa----	97	..caaaagcacacagtttc	CGTTGTAATCTT	agcggcctctcggag	catg-----	203	..--atctgagtgtc	caa	c-tatgc----
D.Per	aatattta	tgcacacacaaa----	102	..ttagctattcctgtttc	CGTTGTAATCTT	aGCTGctacgttggag	catgttgta..	189	..--atctgat----	ag	accagtagttc
D.Pse	aatattta	tgcacacacaaa----	102	..ttagctattcctgtttc	CGTTGTAATCTT	aGCTGctacgttggag	catgttgta..	189	..--atctgat----	ag	accagtagttc
D.Vir	----tgag	catctgtgatgacata	91	..caatagcacacagtttc	CGTTGTAATCTT	agcggctggctcagag	catg-----	203	..tcatccatg--	cca	aatattg---
D.Wil	ctccatct	catatatgatga----	76	..ctataacgctccgtttc	CGTTGTAATCTT	aGCTA	ctgcctggaagc	ctcggtg...201	..--atctgatt--	caa	gtaaaaa---
D.Yak	acccttt	tgcccatgatga----	52	..ccagcaaatctagtttc	CGTTGTAATCTTTGCTG	ctgcactccagaattg	gcag...183	..--atctgaatg--	caa	cctatatg---	
					*	*	*****	*	*	***	*

id=92851 gene=FBgn0043853 name=snoRNA:MeU5-C46 segment=chr3R.3298629_3298944.-1 type=EN

D.Mel	gtgtgatg	gtgagtgtgtag...	203	..ccatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggaatgtgtgctg	ccggtg---	928	..tgttttgacag	gtgcgcat	
D.Sim	gtgtgatg	gtgagtgtgtag...	200	..ccatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggaatgtgtgctg	ccggtg---	882	..tgttttgacag	gtgcgcat	
D.Sec	gtgtgatg	gtgagtgtgtag...	199	..ccatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggaatgtgtgctg	ccggtg---	898	..tgttttgacag	gtgcgcat	
D.Ere	gtgtgatg	gtgagtgtgtac...	201	..ccatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggcatgtgtgctg	ccggtg---	890	..tgttttgacag	gtgcgcat	
D.Gri	gtgttatg	gtgagtacaaca...	606	..---acgttcagcaag	caattagcAAGATTGCAATG	cg--tgtgtttatg	cattgtta...	783	..actggcgacag	gtgcgcat	
D.Per	gtgttatg	gtgagtgtccct...	234	..ccatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggaatgtgtgtttc	ctccg---	793	..tctgctgcacag	gtgcgcat	
D.Pse	gtgttatg	gtgagtgtccct...	228	..ccatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggaatgtgtgtttc	ctccg---	808	..tctgctgcacag	gtgcgcat	
D.Vir	gtgtaatg	gtgagtgcacaca...	774	..---acgttcatttag	caattagcAAGATTGCAATG	ca--tgtgtgtgtt	cttctgtt...	1167	..gctgttgacag	gtgcgcat	
D.Wil	gcgtaatg	gtgagtgtgagt...	782	..agcagcttcaag	taagcaatTAGCAAGATTGCAATG	cggaatgagaggt	ttttcca---	751	..gtatgggtgcag	gtgcgcat	
D.Yak	gtgtgatg	gtgagtgtgtgt...	202	..atatgcggttcagcaag	caatTAGCAAGATTGCAATG	cggaatgtgtgctg	ccggtg---	938	..tgtttgcacag	gtgcgcat	
					*	*	*****	*	*	***	*****

id=52932 gene=FBgn0261546 name=axo segment=chr3L.4671962_4673172.-1 type=IN

Figure 334: CS=12.6



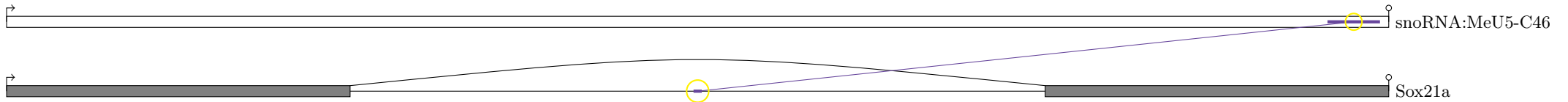
D.Mel	agcccttt	tgcccatgatga----	..251..	-----ttaggtctaagctgtttgtc	ATGGTGACGACGTCTTT	agtaaatctga-----	gcgcaa	catattgg
D.Sim	agcccttt	tgcccatgatga----	..242..	..ggagccacttaggtctaagc	TATATGccGTGGTGACGACGTCTTT	agtaaatctga-----	gcgcaa	catataga
D.Sec	agcccttt	tgcccatgatga----	..242..	..ggagccacttaggtctaagc	TATATGccGTGGTGACGACGTCTTT	agtaaatctga-----	gcgcaa	catataga
D.Ere	cacccttt	tgcccatgatga----	..251..	-----ttaggtccaagctatttgc	ATGGTGACGACGTCTTT	agtaaatctga-----	atgcaa	catatgta
D.Gri	cctggttt	tgagtgaagcaa----	..315..	-----ggcaggtgttgttgcacat	TGACGACGTCTTT	agtaaatctgagt	gctcaactatgc--	-----
D.Per	aatattta	tgacacacaaaa----	..311..	-----gcttgagctagaagccacat	TGACGACGTCTTT	agtaaatctgat	-----agacca	gtagttc-
D.Vir	----tgag	catctgtgatgacata..	..299..	-----ggcaggttttgttgcacat	TGACGACGTCTTT	agtaaatctgagt	gctcatccatgcca	aatatttg
D.Wil	ctccatct	catatatgatga----	..297..	..tga-----ctaagtttagggcaatt	-----TGACGACGTCTTT	agtaaatctgatttc	-----aagtaa	aaaa----
D.Yak	accctttt	tgcccatgatga----	..251..	-----ttagggctaagctatttgc	ATGGTGACGACGTCTTT	agtaaatctga-----	atgcaa	cctatag
				*	*	*****		

id=92851 gene=FBgn0043853 name=snoRNA:MeU5-C46 segment=chr3R.3298629_3298944.-1 type=EN

D.Mel	aAGGccAC	GTaTGTCGCCAT	ttcgtatgtaattcttcattt-----	..108..	gactttttgcag	tgcttatc
D.Sim	aAGGccAC	GTaTGTCGCCAT	ttcCGTATGtaatcttcatttatcgtctt..	..100..	gactttttgcag	agcttatc
D.Sec	aAGGccAC	GTaTGTCGCCAT	ttcCGTATGtaatcttcatttatcgtctt..	..100..	gactttttgcag	agcttatc
D.Ere	aAGGccAC	GTaTGTCGCCAT	ttcgtatgtaattcttcattt-----	..93..	gactttttgcag	tgcttatc
D.Gri	aAGGccAC	GTaTGTCG	ccatttcgtatgtacatatc-----	..117..	gttcgtttgcag	tgacagata
D.Per	aAGGccAC	GTaTGTCG	ccgttttagtatgtaatttc-----	..104..	gctctttttgcag	ttccgata
D.Vir	aAGGccAC	GTaTGTCG	ccatttcgtatgtacaaatc-----	..99..	gtttacttgcag	tacagata
D.Wil	aAGGccAC	GTaTGTCG	ccatttcgtatgtaattcca-----	..186..	aatcctttccag	tcttaata
D.Yak	aAGGccAC	GTaTGTCGCCAT	ttcgtatgtaattcttcattt-----	..102..	gactttttgcag	tgcttata
	*****	*****	*** *****		** ***	**

id=68034 gene=FBgn0035207 name=CG9153 segment=chr3L.1314321.1314472.1 type=IN

Figure 335: CS=14.04



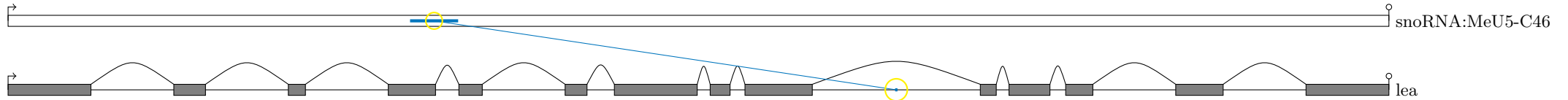
D. Mel	agcccttt	tgcccatgatga----	..262...	ctgtttgtcatggtgacgac	GTCTTAGTAATC	tga-----	gcgcaa	catattgg
D. Sim	agcccttt	tgcccatgatga----	..261...	ctatatgccgtggtgacgac	GTCTTAGTAATC	tga-----	gcgcaa	catataga
D. Sec	agcccttt	tgcccatgatga----	..261...	ctatatgccgtggtgacgac	GTCTTAGTAATC	tga-----	gcgcaa	catataga
D. Ere	cacccttt	tgcccatgatga----	..262...	ctatttgccatggtgacgac	GTCTTAGTAATC	tga-----	atgcaa	catatgta
D. Gri	cctggttt	tgagtgaagcaa----	..322...	gttgttgccacattgacgac	GTCTTAGTAATC	tgagtgctca	caatagtc	-----
D. Per	aatattta	tgcacacacaaa----	..318...	ctagaagccacattgacgac	GTCTTAGTAATC	tga-----	tagacc	agtagttc
D. Pse	aatattta	tgcacacacaaa----	..318...	ctagaagccacattgacgac	GTCTTAGTAATC	tga-----	tagacc	agtagttc
D. Vir	----tgag	catctgtgatgacata..	..306...	ttgttgccacattgacgac	GTCTTAGTAATC	tgagtgctcat	ccatgcca	aatatttg
D. Wil	ctccatct	catatatgatga----	..304...	gtttaggccaattgacgac	GTCTTAGTAATC	tGATTcAAGT	-----	aaaaaa
D. Yak	accctttt	tgcccatgatga----	..262...	ctatttgccatggtgacgac	GTCTTAGTAATC	tga-----	atgcaa	cctatatg
				*	* * *	*****		

id=92851 gene=FBgn0043853 name=snoRNA:MeU5-C46 segment=chr3R_3298629_3298944_-1 type=EN

D. Mel	cgattgcg	gtaagtattgtt...	..463...	----tctggccacaaaatttgatc----	GATTaGCTAAGAC	aaaggctac	cctattgtgagg..	..1114..	tttaatttacag	ggctctgc
D. Sim	cgattgcg	gtaagtgttgtt...	..450...	----tctggccacaaaatttgatc----	GATTaGCTAAGAC	aaaggctac	cctattgtgagg..	..1143..	tttaatttacag	ggctctgc
D. Sec	cgattgcg	gtaagtgttgtt...	..453...	----tctggccacaaaatttgatc----	GATTaGCTAAGAC	aaaggctgc	cctattgtgagg..	..1136..	tttaatttacag	ggctctgc
D. Ere	cgattgcg	gtaagtgttgtt...	..539...	---gtctggccac--aaatttgatc----	GATTaGCTAAGAC	aaaggctcc	cctattgtgagg..	..1042..	ttctatttacag	ggccctgc
D. Gri	cgattgcg	gtgagtgtgtgt...	..65...	c--aactggttac--aatttaagc----	GATTaGCTAAGAC	aatggagag	ctattgtgagg..	..1242..	ctcaatttacag	cgccctgc
D. Per	cgattgcg	gtaagtacattt...	..129...	----tctggccacaaaatttgatc----	GATTaGCTAAGAC	aaaggctca	ctattgtgaga..	..1345..	ctcaatttacag	cgccctgc
D. Pse	cgattgcg	gtaagtacattt...	..116...	----tctggccacaaaatttgatc----	GATTaGCTAAGAC	aaaggctca	ctattgtgaga..	..1362..	ctcaatttacag	cgccctgc
D. Vir	cgtttgcg	gtgagtatatct...	..72...	c--gtctggtcac--aatttaagc----	GATTaGCTAAGAC	aatgggcag	ctattgtgagg..	..1161..	ctttatttacag	cgccctgc
D. Wil	cgtttgag	gtaaggagcaa...	..107...	ctggctctggtctg--ggttacaATTGATCGATT	aGCTAAGAC	aaaggctta	ctattgtgacc..	..2060..	cttaatttacag	ggcgctgc
D. Yak	cgattgcg	gtaagtgttgtt...	..543...	----tctggccacaaaatttgatc----	GATTaGCTAAGAC	aaaggctcc	cctattgtgagg..	..1169..	ttttatttacag	ggccctgc
	** ** *	** **		****	** *	*****	*	*****	*	*****

id=2418 gene=FBgn0036411 name=Sox21a segment=chr3L_14097988_14099641_-1 type=IN

Figure 336: CS=12.6



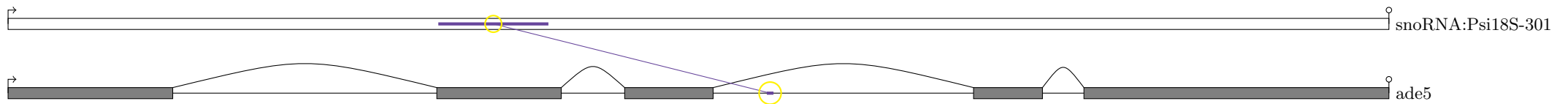
D.Me1	agcccttt	tgcccatgatga----	52..	ctagcaaatctagtttcac	CGTTGTAATCTTTG	ctgctgcactccagaattg..	186...	--atctgagcg--caa	catattgg---
D.Sim	agcccttt	tgcccatgatga----	52..	ttagcaaatctagtttcac	CGTTGTAATCTTTG	ctgctgcactccagaattg..	185...	--atctgagcg--caa	catataga---
D.Sec	agcccttt	tgcccatgatga----	52..	ctagcaaatctagtttcac	CGTTGTAATCTTTG	ctgctgcactccagacttg..	185...	--atctgagcg--caa	catataga---
D.Ere	cacccttt	tgcccatgatga----	52..	ttagcaaatctagtttcac	CGTTGTAATCTTTG	ctgctgcactccagaattg..	186...	--atctgagcg--caa	catatgta---
D.Gri	cctggttt	tgagtgaagcaa----	97..	caaaagcacacagtttcg	CGTTGTAATCTTTG	agcggccg--tctcggagcatg..	203...	--atctgagtgctcaa	c-tatgc---
D.Per	aatattta	tgacacacacaaa----	102..	ttagctattcctgtttcac	CGTTGTAATCTTTG	agcggcga--cgttggagcatg..	194...	--atctgat-----ag	accagtagttc
D.Pse	aatattta	tgacacacacaaa----	102..	ttagctattcctgtttcac	CGTTGTAATCTTTG	agcggcga--cgttggagcatg..	194...	--atctgat-----ag	accagtagttc
D.Vir	---tgag	catctgtgatgacata...	91..	caatagcacacagtttcg	CGTTGTAATCTTTG	agcggcga--gctcagagcatg..	203...	tcatccatg----cca	aatattg---
D.Wil	ctccatct	catatatgatga----	76..	ctataacgctcgttttcac	CGTTGTAATCTTTG	agcgaactg--cctggaagcctg..	206...	--atctgattt--caa	gtaaaaaa---
					*				*

id=92851 gene=FBgn0043853 name=snoRNA:MeU5-C46 segment=chr3R.3298629_3298944.-1 type=EN

D.Me1	tgaagatg	gtgagtttaagca...	1579..	acaa---caacaacggctcgact	CAAAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1706...	tttcctttccag	ttccctct
D.Sim	tgaagatg	gtgagtttaagca...	1576..	acaa---caacaacggctcgact	CAAAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1727...	tttcctttccag	ttccctct
D.Sec	tgaagatg	gtgagtttaagca...	1532..	acaa---caacaacggctcgact	CAAAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1683...	tttcctttccag	ttccctct
D.Ere	tgaagatg	gtgagtttaagca...	1558..	acaa---caacaacggctcgact	CAAAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1761...	tttcctttccag	ttccctct
D.Gri	tgaagatg	gtaagtatctag...	2490..	acaagcacacaacaactca----	AAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1615..	tcgtttttccag	tgcccaat
D.Per	ggaagatg	gtgagtttacc...	1449..	gggcagcacacagtcctca----	AAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1538...	ccctttttccag	taccaaac
D.Pse	ggaagatg	gtgagtttacc...	1436..	gggcagcacacagtcctca----	AAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1627...	ccctttttccag	taccaaac
D.Vir	cgaagatg	gtgagtttacc...	2816..	acaacagcagcaaaaactca----	AAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1556...	tttttttttag	tgcccaat
D.Wil	cgaagatg	gtgagtttacc...	1522..	tgagtttgctggtgcaactca----	AAGA	AaTTGC	AACG	caattgtgtaaagataaaca...	1464...	cgttacttacag	tgcccaac
	*****	** **		***	*****	*****	*****	*****		** **	* **

id=129954 gene=FBgn0002543 name=lea segment=chr2L.1387527_1390892.-1 type=IN

Figure 337: CS=11.34



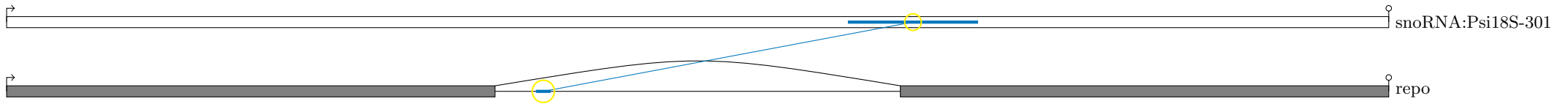
D.Me1	acctttgt	aatctg	cgcat	ttgaggt	gacaaatc	-catcgcat	ATTTGTTACCGTGA	tctacgcagagagattaaaa...	57...	actcagacatgt	gctgccaa
D.Sim	accattgt	aatctg	cgcat	ttgaggt	gacaaatc	-cattgcac	ATTTGTTACCGTGA	tctacgcagagagattaaaa...	57...	actcagacacgt	gctgccaa
D.Sec	accattgt	aatctg	cgcat	ttgaggt	gacaaatc	-cattgcac	TTTGTTTACCGTGA	tctacgcagagagattaaaa...	57...	actcagacacgt	gctgccaa
D.Ere	accttagt	aatctg	cgcat	ttgaggt	gacaaatc	-catcgcat	ATTTGTTACCGTGA	tctacgcagagagattaaa...	58...	actcagacacgt	gctgccaa
D.Ana	acacttat	aatctg	tgcat	ttgaggt	gacaaatt	-aaactcat	ATTTGTTACCGTGA	tctacgcagagagattaaa...	56...	actcagacacgt	gctgccaa
D.Gri	atcttttt	attctg	tgcat	ttgaggt	gacaaatt	-tactgcat	ATTTGTTACCGTGA	tctacgcagataaataaaa...	59...	actcagacacgt	gctgcca
D.Per	acccttga	actctac	gcat	ttgaggt	gacaaatc	-caaactgcat	ATTTGTTACCGTGA	tctacgtagagagattaaa...	59...	actcagacacgt	gctactaa
D.Pse	acccttga	actctac	gcat	ttgaggt	gacaaatc	-caaactgcat	ATTTGTTACCGTGA	tctacgtagagagattaaa...	59...	actcagacacgt	gctactaa
D.Vir	gctatttt	attctg	cgcat	ttgaggt	gacaaatt	-gattacat	ATTTGTTACCGTGA	tctatgcagatagattaaa...	59...	actcagacacgt	gcttgcct
D.Yak	accttagt	aatctg	cgcat	ttgaggt	gacaaatc	-tatcgcat	ATTTGTTACCGTGA	tctacgcagagagattaaaa...	57...	actcagacatgt	gctgccaa
	*	*	***	*****	*****	*	**	*****	***	*	**

id=46501 gene=FBgn0083039 name=snoRNA:Psi18S-301 segment=chr3R_16400628_16400765.1 type=EN

D.Me1	ggctacag	gttggt	aaacag	...	46...	---tgtgt	gttatctgtgtcgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	302...	tgcat	gcgcag	gttctcgc
D.Sim	ggctacag	gttggt	aatggt	...	51...	---tctgt	gttatctgtgtcgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	230...	tgcat	gcgcag	gttctcgc
D.Sec	ggctacag	gttggt	aatggt	...	51...	---tctgt	gttatctgtgccac	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	248...	tgcat	gcgcag	gttctcgc
D.Ere	ggctacag	gttggt	atgcta	...	44...	---ctcg	gttatctgagtcgcc-c	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	286...	tgcat	gcgcag	gttctcgc
D.Ana	ggctatag	gttggt	aaactga	...	63...	---tcagg	ccgagaactgtcca	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	433...	ctac	cttttag	attctctc
D.Gri	ggctacag	gtcagt	ggcatc	...	156...	---cgca	cttgacatccc---ctgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	185...	gctt	actggcag	attctcgc
D.Per	ggctacag	gttagt	ggcatt	...	50...	---acgt	tgacgtttcacgctgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	345...	ttat	ccgctag	attctcac
D.Pse	ggctacag	gttagt	ggcatt	...	50...	---acgt	tgacgtttcacgctgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	333...	ttat	ccgctag	attctcac
D.Vir	ggctacag	gtcagt	aacatc	...	125...	---cacc	gcccttctgtgctgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	439...	gacc	attgcag	attctcgc
D.Yak	ggctacag	gttggt	atgata	...	70...	---tcg	gttatctgggtcccgc	-TTGCGGTAACAAAT	-tcaaatgcaatcgatgcact	----	...	294...	tgcat	gcacag	gttctcgc
	****	**	**	*	*	*	*	*****	*	*	****	**	****	*	

id=34594 gene=FBgn0020513 name=ade5 segment=chrX_12653069_12653495.-1 type=IN

Figure 338: CS=11.5



```

D.Mel  acctttgt aatctg'gcatt...44...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcatctaaaaacc-agtgtgatattaaccccgtaagactcagacatgt gctgccaa
D.Sim  accattgt aatctg'gcatt...44...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcaactaaaaacc-agtgtgatattaaccccgtaagactcagacacgt gctgccaa
D.Sec  accattgt aatctg'gcatt...44...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcaactaaaaacc-agtgtgatattaaccccgtaagactcagacacgt gctgccaa
D.Ere  accttagt aatctg'gcatt...44...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcaactaaaaacc-agtgtgatattaaccccgtaagactcagacacgt gctgccaa
D.Ana  acacttat aatctgtgcatt...38...ctacacagagagattaaaacTGTTCGATTaCCGTGTTAAATcaactaaaaacc-agaagtgtatttaaccccgtaagactcagacacgt gttgccaa
D.Gri  atcttttt attctgtgcatt...44...-----agataaataaaaactgtgtcGATTaCCGTGTTAAATcaactaaaaacc-agaagtgtgatcttaaccccgtaagactcagacacgt gtttgcca
D.Moj  gtcatttt attctgtgcatt...44...-----agatagattaaaactgtgtcGATTaCCGTGTTAAATcaactgaaatcaagtgtgatcttaaccccgtaagactcgaacacgt gtttgctt
D.Per  acccttga actctacgcatt...45...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcaactgaaatcaagtgtgatcttaaccccgtaagactcagacacgt gctactaa
D.Pse  acccttga actctacgcatt...45...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcaactgaaatcaagtgtgatcttaaccccgtaagactcagacacgt gctactaa
D.Vir  gctatttt attctgcacatt...44...-----agatagattaaaactgtgtcGATTaCCGTGTTAAATcaactgaaatcaagtgtgatcttaaccccgtaagactcagacacgt gtttgctt
D.Yak  accttagt aatctg'gcatt...44...-----agagagattaaaactgtgtcGATTaCCGTGTTAAATcaactaaaaacc-agtgtgatattaaccccgtaagactcagacatgt gctgccaa
*      *
* ***  ****          *** * ** ** * ** * ***** ** * * * ***** ***** ** * * *

```

id=46501 gene=FBgn0083039 name=snoRNA:Psi18S-301 segment=chr3R_16400628_16400765.1 type=EN

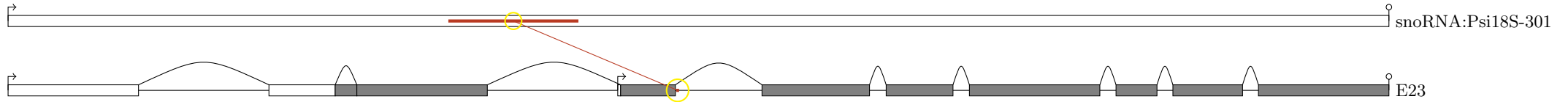
```

D.Mel  aagacgag gtaagc-----ggtcgaagctgctacgc-----tgtcaattaATTTAAcACGGgaAATCAatgaaattatgtggcaca-----...333...ttttaccttcag aaccacct
D.Sim  aagacgag gtaa-----gc-----tgtcaattaATTTAAcACGGgaAATCAatgaaattatgtggcaca-----...292...ttttcccttcag aaccacct
D.Sec  aagacgag gtaa-----gc-----tgtcaattaATTTAAcACGGgaAATCAatgaaattatgtggcaca-----...287...ttttcccttcag aaccacct
D.Ere  aaaaacgag gtaagc-----ggtcggagctgctccac-----tgtcaattaATTTAAcACGGgaAATCAatgaaattatgtggcaca-----...361...tctttgttcag aaccacct
D.Ana  aaaaacgag gtaagc-----tgatgacaattttttatgtgttttttagtaccattaATTTAAcACGGgaAATCAATGaaattatgtggcagagacag...280...ttctaccacag gacaacct
D.Gri  aaaaacgag gtaagt-----gagagccaaccaatttg-----ccacaattaacTTAAcACGGgaAATCAatgaaattatctgt--caatt...1386...gtgcacttgcag aaccacct
D.Moj  aaaaacgag gtaagt-----gctgagccgacaaaactat-----ttcaattaacTTAAcACGGgaAATCAatgaaattat--cacaatt...604...ttacatttcag aaccacct
D.Per  aaaaacgag gtaagcatccccatccattctctctgatatcctgcaa-----ttccaattaATTTAAcACGGgaAATCAatgatgttatgtggccccc-----...309...attcgattgcag aaccacct
D.Pse  aaaaacgag gtaagcatccccatccattctctctgatatcctgcaa-----ttccaattaATTTAAcACGGgaAATCAatgatgttatgtggccccc-----...309...attcgattgcag aaccacct
D.Vir  aaaaacgag gtaagc-----gacaatttccaat--ttccaatttccaattagcTTAAcACGGgaAATCAatgaaattatctgc--caatt...807...atgcatttgcag aactacgt
D.Yak  aaaaacgag gtaagc-----ggtcggagctgccccac-----tcctaattaATTTAAcACGGgaAATCAatgaaattatgaggcaca-----...1654...tttttctttag aaccacct
** ***** **
***** ***** **
** ** ** *

```

id=101450 gene=FBgn0011701 name=repo segment=chr3R_14063142_14063556.1 type=IN VIEW

Figure 339: CS=10.45



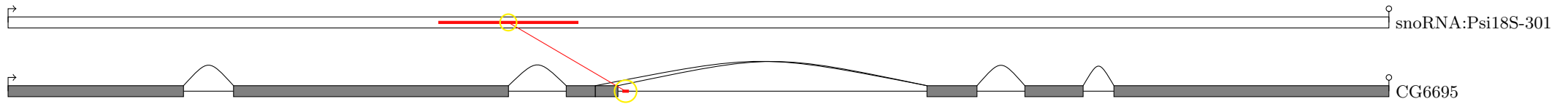
D. Mel	acctttgt	aatctg	cgcat	ttgag	gtgaca	aatccat	cgcata	TTTGT	TACCG	TGAT	ctacgcagagagattaaaac...56...actcagacatgt	gctgccaa
D. Sim	accattgt	aatctg	cgcat	ttgag	gtgaca	aatccat	cgcata	TTTGT	TACCG	TGAT	ctacgcagagagattaaaac...56...actcagacacgt	gctgccaa
D. Sec	accattgt	aatctg	cgcat	ttgag	gtgaca	aatccat	cgcata	TTTGT	TACCG	TGAT	ctacgcagagagattaaaac...56...actcagacacgt	gctgccaa
D. Ere	accttagt	aatctg	cgcat	ttgag	gtgaca	aatccat	cgcata	TTTGT	TACCG	TGAT	ctacgcagagagattaaaac...56...actcagacacgt	gctgccaa
D. Ana	acacttat	aatctg	tgcat	ttgag	gtgaca	aattaaact	cata	TTTGT	TACCG	TGAT	ctacacagagagattaaaac...56...actcagacacgt	gctgccaa
D. Gri	atcttttt	attctg	tgcat	ttgag	gtgaca	aatttact	gcatat	TTTGT	TACCG	TGAT	ctacgcagataaaataaaacc...57...actcagacacgt	gcttgcca
D. Moj	gtcatttt	attctg	tgcat	ttgag	gtgaca	aattta	gcatat	TTTGT	TACCG	TGAT	ctacacagatagattaaaac...57...actcgaacacgt	gcttgctt
D. Vir	gctatttt	attctg	cgcat	ttgag	gtgaca	aattgatt	acatat	TTTGT	TACCG	TGAT	ctatgcagatagattaaaac...57...actcagacacgt	gcttgctt
D. Yak	accttagt	aatctg	cgcat	ttgag	gtgaca	aatctat	cgcata	TTTGT	TACCG	TGAT	ctacgcagagagattaaaac...56...actcagacatgt	gctgccaa
	* *	* ****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

id=46501 gene=FBgn0083039 name=snoRNA:Psi18S-301 segment=chr3R.16400628.16400765.1 type=EN

D. Mel	ttcGTCAG	GTAACAAG	-----atcaacggaacaagagcact...292...tctctgtttag	tccctgcg
D. Sim	ttcGTCAG	GTAACAAG	-----atcaacggaacaagagcact...296...tctctttttag	tccctgcg
D. Sec	ttcGTCAG	GTAACAAG	-----atcaacggaacaagagcact...288...tttctgtttag	tccctgcg
D. Ere	ttcGTCAG	GTAACAAG	-----atcaacggaacaagagcact...273...tctctgtttag	tccctgcg
D. Ana	ttcGTCAG	GTAACAAG	-----atccgccagtacataattta...305...aatccttacag	cccctgcg
D. Gri	ttaGTCAG	GTAACAA	caaca--aacgaccaagcaagc-----...203...gcgtttctttag	tcccggcg
D. Moj	ttaGTCAG	GTAACAA	caacaacaacaac--aacaga-a----...94...tctcctctgag	tccctggcg
D. Vir	ttaGTCAG	GTAACAA	caa-acaacaacaac--aacaaca----...111...ctttctgagcag	tcccggcg
D. Yak	ttcGTCAG	GTAACAAG	-----atcaacggaacgagagcact...239...tttctgtttag	tccctgcg
	** ****	*****	*****	** **

id=62056 gene=FBgn0020445 name=E23 segment=chr2L.3337895.3338226.-1 type=IN

Figure 340: CS=13.86



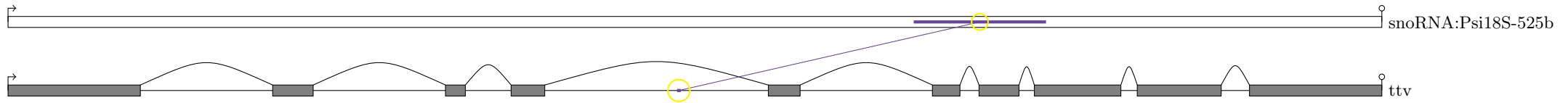
D.Mel	acctttgt	aatctg	cgcat	ttgag	gtgaca	aatc-c	atcgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	gagatt	aaaac	...	56	...	actc	agac	atgt	gctg	ccaa
D.Sim	accattgt	aatctg	cgcat	ttgag	gtgaca	aatc-c	atcgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	gagatt	aaaac	...	56	...	actc	agac	acgt	gctg	ccaa
D.Sec	accattgt	aatctg	cgcat	ttgag	gtgaca	aatc-c	atcgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	gagatt	aaaac	...	56	...	actc	agac	acgt	gctg	ccaa
D.Ere	accttagt	aatctg	cgcat	ttgag	gtgaca	aatc-c	atcgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	gagatt	aaaac	...	56	...	actc	agac	acgt	gctg	ccaa
D.Ana	acacttat	aatctg	tcgcat	ttgag	gtgaca	aat-aa	actca	ta	TTTGT	TAC	cgTG	AT	ctac	gcaga	gagatt	aaaac	...	56	...	actc	agac	acgt	gctg	ccaa
D.Gri	atcttttt	attctg	tcgcat	ttgag	gtgaca	aat-ta	atgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	taata	aaaac	...	57	...	actc	agac	acgt	gctt	gcca
D.Moj	gtcatttt	attctg	tcgcat	ttgag	gtgaca	aat-ta	atgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	taata	aaaac	...	57	...	actc	gaac	acgt	gctt	gctt
D.Per	acccttga	actctac	gcattg	aggtg	aca	aatca	aaact	gcata	TTTGT	TAC	cgTG	AT	ctac	gtaga	gagatt	aaaac	...	57	...	actc	agac	acgt	gctac	taa
D.Pse	acccttga	actctac	gcattg	aggtg	aca	aatca	aaact	gcata	TTTGT	TAC	cgTG	AT	ctac	gtaga	gagatt	aaaac	...	57	...	actc	agac	acgt	gctac	taa
D.Vir	gctatttt	attctg	tcgcat	ttgag	gtgaca	aat-g	attaca	ta	TTTGT	TAC	cgTG	AT	ctat	gcaga	taata	aaaac	...	57	...	actc	agac	acgt	gctt	gctt
D.Yak	accttagt	aatctg	cgcat	ttgag	gtgaca	aatc-c	atcgc	ata	TTTGT	TAC	cgTG	AT	ctac	gcaga	gagatt	aaaac	...	56	...	actc	agac	atgt	gctg	ccaa
	*	*	***	*****	*****	*	**	*****	*****	*****	***	*	**	***	***	*	*	****	***	**	*	*	*	

id=46501 gene=FBgn0083039 name=snoRNA:Psi18S-301 segment=chr3R.16400628.16400765.1 type=EN

D.Mel	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agtgt	gtcat	gcccc	...	666	...	gtg	cttt	acag	ggct	ccgg			
D.Sim	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agtgt	gtcat	gcccc	...	638	...	atg	cttt	acag	ggct	ccgg			
D.Sec	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agtgt	gtcat	gcccc	...	639	...	gtg	cttt	acag	ggct	ccgg			
D.Ere	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agcgt	gtcat	gcccc	...	701	...	gtg	cttt	acag	ggct	ccgg			
D.Ana	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	catgt	ccaat	gcccc	...	522	...	ta	aca	att	acag	ggact	tgg		
D.Gri	aaaccaa	GTCAG	TAAG	CAAA	accaa	agtgt	ctc	catt	gcct-	...	1295	...	cg	act	ctt	acag	ggat	ctgg	
D.Moj	aaaccaa	GTCAG	TAAG	CAAA	accaa	agtgt	ctc	catt	gcct-	...	875	...	tg	act	ttt	acag	ggct	ctgg	
D.Per	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agtgt	ctc	catt	gcctc	...	273	...	tg	ctt	ctt	acag	ggac	actc	
D.Pse	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agtgt	ctc	catt	gcctc	...	273	...	tg	ctt	ctt	acag	ggac	actc	
D.Vir	aaaccaa	GTCAG	TAAG	CAAA	accaa	agtgt	ctc	catt	gcct-	...	1105	...	tg	a	at	att	acag	ggat	ctgg
D.Yak	aaaccaa	GTCAG	TAAG	CAAA	gcc-a	agcgt	gtcat	gcccc	...	666	...	gtg	cttt	acag	ggct	ccgg			
	*****	*****	*****	*****	**	*	**	**	*	*****	*****	*****	**	**	**	**			

id=19747 gene=FBgn0039215 name=CG6695 segment=chr3R.20483332.20484042.1 type=IN VIEW

Figure 341: CS=11



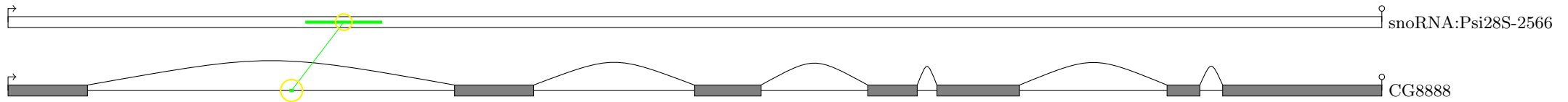
D. Mel	--ttttaggc	tttggagccaaa...49...	-attaactagaaagcgaacg	GCATCCTGAATAAT	caatcatattataacagatgactt	gttctgtgtacattt	gccataaa-----	
D. Sim	--atthagtc	cttggagtcaaaa...49...	-atcaaaggaaaggcgaacg	GCATCCTGGATAAATTA	atcatattatagcagatgactt	gttctgtgtcactacaata	gtgattta-----	
D. Sec	ggaatgg--	attggagtcaaaa...44...	tatcaaatgtaaagcgaacg	GCATCCTGAATAAATTATG	catattataacagatgactt	gttctgtctacaata	gctcctga-----	
D. Ere	--tcttgtag	ttttttgtaatt...60...	-atcaaatgtaaagcgaacg	GCATCCTGGATAAATCTAT	tatattatagcagatgactt	gttctgtgtacaatt	gccctaca-----	
D. Ana	--tatcatgt	cctggagtcaaaa...48...	-aactaacctaaatagcgaacg	GCATCCTGAATAAATTAT	catattatcagatgactt	gttctgtctgtacaagt	ttcaagaa-----	
D. Gri	--gtacagtt	actccaatctgt...67...	-aatcaatctaaatagcgaacg	GCATCCTGT	TTAAT	ctcttatattataaccagatgactt	gttctgtgtgtacagtt	
D. Moj	--ttatatta	tgtggagtcaaaa...48...	-aataaacccaaagcgaacg	GCATCCTGT	TTAAT	AATTATA	ttaaacagatgactt	gttctgtgtacacct
D. Pse	atattgtcct	cctggagcca--...52...	-aataacacgatagcgaacg	GCATCCTGAATAAAT	ccctcatattataacagacgactt	gttctgtgtacaata	gaccttaa-----	
D. Vir	--ttatactc	tttggagtcaaaa...48...	-aactaaccaaaagcgaacg	GCATCCTGT	ATAAT	ccctcatattataaacagatgactt	gttctgtgtgtacagtt	
D. Wil	--gtacaatc	gcctaaaatgta...87...	-atcaaatcagatccgaacg	GCATCCTGT	TTAAT	ccttcatattataaacagatgactt	gttctgtgtgtacaatc	
D. Yak	--atatcgtc	attggagtcaaaa...49...	-ataacaagatagctcaacg	GCATCCTGGATAAAT	-cctcatattatagcagatgactt	gttctgtgtcactacaata	ttattaa-----	
				*	*	*	*****	
				*	*	*	*****	

id=35604 gene=FBgn0083037 name=snoRNA:Psi18S-525b segment=chr2L_20418670_20418804.1 type=EN

D. Mel	tgctgcag	gtgagctggagc...1181...	-----ggcatgtttgcctttgtagt	TTATTGgCAGGaaATGC	aattaa-ttaagttaacttga...	306...	-atcatatatag	gtaccgga
D. Sim	tgctgcag	gtgagccggagc...1188...	-----cattggcatgtttgcctttg	TAGTtTATTGgCAGGaaATGC	aattaa-ttaagttaacttga...	321...	-acatatatatag	gtgccgga
D. Sec	tgctgcag	gtgagccggagc...1172...	...tccattggcatgtttgccttt	TGTAGTtTATTGgCAGGaaATGC	tattaa-ttaagcttaacttga...	315...	-acatatatatag	gtgccgga
D. Ere	tgctgcag	gtaagccggttc...1171...	...ccattggcatgtttgccttt	GTAGtTTATTGgCAGGaaATGC	aattaa-ttaagttaacttga...	305...	-cgcatatatatag	gtgccgga
D. Ana	tgctgcag	gtgagccgatcc...1064...	...ccattggcatgtttgccttt	GTAGTtTATTGgCAGGaaATGC	aattaa-ttaagttaacttga...	341...	-tttgccttcag	gtaccgga
D. Gri	tactgcag	gtgagttgacca...969...	-----catgtttgcctttgtagttt	ATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	378...	-ctcttattgcag	gtgccgga
D. Moj	tgctccag	gtgagttggcca...2002...	...atcgctggcatgtttgccttt	TGTAGTtATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	310...	-ctctgcttcag	gtaccgga
D. Pse	tgctgcag	gtgagcgaaacg...911...	-----ggcatgtttgcctttgtagt	TTATTGgCAGGaaATGC	aattaa-ttaagttaacttga...	266...	-tctcta-ttacag	gtaccgga
D. Vir	tgctgcag	gtgagttgtcca...1209...	-----catgtttgcctttgtagttt	ATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	337...	-cactcattgcag	gtgccgga
D. Wil	tgctgcag	gtgagcgaaatc...1410...	-----catgtttgcctttgtagttt	ATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	220...	-ttgcttttcag	gtgcctga
D. Yak	tgctgcag	gtgagccggagc...1236...	-----ggcatgtttgcctttgtagt	TTATTGgCAGGaaATGC	aattaa-ttaagttaacttga...	301...	-tcgcatatctag	gtgccgga
		** * *		*****		*	**	** * *

id=12822 gene=FBgn0020245 name=ttv segment=chr2R_10450891_10452458.1 type=IN

Figure 345: CS=14.3



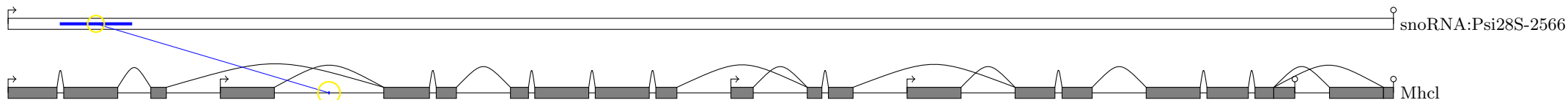
D. Mel	ccacgagt	t-----ttcacaggtc-agtcagctgtacggttctggttttaaa--cgtcaa--ccga	ATAGCGTTACAC	ca GTGAT	-agagcaat--aaatg	cggtgt...169...--aaggttacattt	ccttttta
D. Sim	ccacgtgt	t-----ttcacaggtc-agtcagctgtacggttctggttttaca--cgtcaa--ccga	ATAGCGTTACAC	ca GTGAT	-agagcaat--aaatg	cggtgt...169...--aaggttacattt	ccttttta
D. Sec	ccacgtgt	t-----ttcacaggtc-agtcagctgtacggttctggttttaca--cgtcaa--ccga	ATAGCGTTACAC	ct GTGAT	-agagcaat--aaatg	cggtgt...169...--aaggttacattt	ccttttta
D. Ere	gtctacgt	t-----ttcacaggtc-agtcagctgtacggttctggttttaaa--cgtcaa--ccga	ATAGCGTTACAC	ct GTGAT	-agagcaat--aaatg	cggtgt...145...ggaaggttaca--t	ccttttta
D. Gri	gcttgggt	t-----ttcacaagtc-agtcagctgtttagttgttacttgaat---ttaactctac--	AGCGTTACAC	tt GTGAT	-agagcaat	taaaatgcgact--...178...--gagttgacattt	ttttgaaa
D. Per	atttccat	t-----ttcacagatc-agtcagctgttcggttctggttt--ga--tgtcaa--ccaa	ATAGCGTTACAC	tt GTGAT	-agatcaat--aaatg	cgacagt...152...--gagcagacactt	cctttgca
D. Pse	atttccat	t-----ttcacagatc-agtcagctgttcggttctggttt--ga--tgtcaa--ccaa	ATAGCGTTACAC	tt GTGAT	-agatcaat--aaatg	cgactgt...152...--gagcagacactt	cctttgca
D. Wil	tgtattgt	g-----ttcacaagtcagtcagctgtgaattta--aatttaattgtgaattccac--	AGCGTTACAC	tt GTGAT	agagcaaat	taaaatagga--...148...--aagttgacatta	tcttttat
D. Yak	ctacgttt	tcacaggttcacaggtc-agtcagctgtacggttctgggtattaaa--cgtcaa--ccga	ATAGCGTTACAC	ct GTGAT	-agagcaat--aaatg	cggtgt...151...--aaggttacattt	ccttttta
	*	***** ** ***** ** *	*****	*****	*** ** *	*****	** **

id=79085 gene=FBgn0086661 name=snoRNA:Psi28S-2566 segment=chr3L.18889289.18889556.-1 type=EN

D. Mel	acaatatg	gtaagtgaaatc...1230...---ttttcgagagtatt---gtgcac---	GTCATGTGTAAT	TGCTAT	acgtcaatgtcaatgtgtgg...684...tttatcctttag	cgccgtgc
D. Sim	acaatatg	gtaagtgaaatc...1199...---ttttcgagcgtatt---gtgcac---	GTCATGTGTAAT	TGCTAT	acgtcaatgtcaatgtgtgg...681...ttcatcctttag	cgccgtgc
D. Sec	acaatatg	gtaagtgaaatc...1206...---ttttcgagagtatt---gtgcac---	GTCATGTGTAAT	TGCTAT	acgtcaatgtcaatgtgtgg...677...ttcatcatttag	cgccgtgc
D. Ere	acaatatg	gtaagtgaaatc...1186...---ttttcgagagcact---gtgcac---	GTCATGTGTAAT	TGCTAT	acgtcaatgtcaatgtgtgg...661...ttcatcctttag	cgccgcgc
D. Gri	acaatatg	gtaagttgcct...1575...---atgtatgaacgtacacataa	GTCATGTGTAAT	TGCTAT	atgtcaatgtcaatgtgtg...1673...atccaatttag	cgctcgcg
D. Per	acaatatg	gtaagtgaaatg...1469...---tttgcgatgtaat---gtgcac---	GTCATGTGTAAT	TGCTAT	atgtcaatgtcaatgtgtga...730...ctctctcttag	cgccgtgc
D. Pse	acaatatg	gtaagtgaaatg...1458...---tttgcgatgtaat---gtgcac---	GTCATGTGTAAT	TGCTAT	atgtcaatgtcaatgtgtga...746...ctctctcttag	cgccgtgc
D. Wil	ataccatg	gtaagttccttag...2979...aaatct---agtatgtgggtgca---	TGTCATGTGTAAT	TGCTAT	atgtcaatgtcaatgtgtga...1929...ttcccattgca	cgccgtgc
D. Yak	acaatatg	gtaagtgaaatc...1322...---ttttcgagagtatt---gtgcac---	GTCATGTGTAAT	TGCTAT	acgtcaatgtcaatgtgtgg...662...ttcatcctttag	cgccgcgc
	* * **	*****	*****	*****	*****	*****

id=94559 gene=FBgn0033679 name=CG8888 segment=chr2R.7964804.7966799.-1 type=IN

Figure 346: CS=10.8



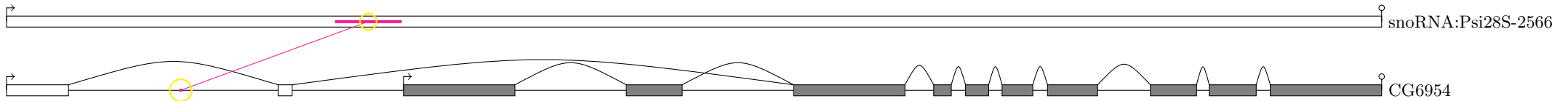
D. Mel	ccacgagt	t-----TTCACagGTC-AGTCAGCTGTAC-----ggttctggttttaaactgca---...213...--aaggttacattt	ccttttta
D. Sim	---cca-	---CGTGTtTTCACagGTC-AGTCAGCTGTAC-----ggttctggttttacactgca---...213...--aaggttacattt	ccttttta
D. Sec	---cca-	---CGTGTtTTCACagGTC-AGTCAGCTGTAC-----ggttctggttttacactgca---...213...--aaggttacattt	ccttttta
D. Ere	gtctactgt	t-----TTCACagGTC-AGTCAGCTGTAC-----ggttctggttttaaactgca---...189...ggaaggttaca--t	ccttttta
D. Ana	gcaccttt	c-----TTCACaaGTC-AGTCAG-----cagtttggttttggttttt---...206...--atggttacattt	tctttcta
D. Gri	gcttgg--	-----GTTTCACaaGTC-AGTCAG-----ctgtttagttgttacttgaa---...226...--gagttgacattt	ttttgaaa
D. Per	atttccat	t-----TTCACgaGTC-AGTCAGcTGTTcgGTTCTGGttttagtgcaaccaaatagc...186...--gagcagacactt	cttttgca
D. Pse	atttccat	t-----TTCACgaGTC-AGTCAGcTGTTcgGTTCTGGttttagtgcaaccaaatagc...186...--gagcagacactt	cttttgca
D. Wil	-----t	GTATTGTGTTTCACaaGTCAaGTCAGCTGT-----gaatttaaatttaatatgt---...195...--aagttgacatta	tcttttat
D. Yak	--ctacgt	tttcacagGTTTCACagGTC-AGTCAGCTGTAC-----ggttctggtattaaactgca---...195...--aaggttacattt	ccttttta
		***** ** * ***** * *	** ** *

id=79085 gene=FBgn0086661 name=snoRNA:Psi28S-2566 segment=chr3L.18889289.18889556.-1 type=EN

D. Mel	agcaaaag	gtg-cgcataata...728...-----tcgccgtgtagtggagtgga---GTGCAGCaTTGATTGACaGTGGA-----catgcgccggggaactatt-----...939...atcttttcgag	agccgccca
D. Sim	agcaaaag	gtg-cgcataata...744...-----tcgccgtgtagtggagtgga---GTGCAGCaTTGATTGACaGTGGAcATGCG-----cccggggaactattttgttt...893...atcttttcgag	agccgccca
D. Sec	agcaaaag	gtg-cgcataata...719...tgacttcgccgtgtagtggga-----GTGCAGCaTTGATTGACaGTGGAcATGCG-----cccggggaactattttgttt...911...atcttttcgag	agccgccca
D. Ere	agcaaaag	gtg-cgcattata...836...-----cggccgtgtagtggagtgga---GTGCAGCaTTGATTGACaGTGGA-----catgcgccggggaactatt-----...859...atcttttcgag	agccgccca
D. Ana	agcaaaag	gta-caaatgaaa...1122...-----gagtgagtgaggagtcagca-----TTGATTGACaGTGGA-----catgcgccggggaactatt-----...1091...atcttttcgag	agccgccca
D. Gri	ggcaaaag	gtg-cgcattaca...1615...-----ccgatcgcgactgcagcta-----TTGATTGACaGTGGAcAGAC-----gcttgtcagttcactttgtt...2082...tatattttgag	agccggca
D. Per	gtcaaaag	gtatcgtatgaa...1356...---tcttgctccgtgtctctattCTGGAGTgcAGCATTGATTGACaGTGGA-----catgcgccagacgcg-tattt-----...1247...atcttttcgag	agccgccca
D. Pse	tacaagg	tta-tgccttaag...877...---tcttgctccgtgtctctattCTGGAGTgcAGCATTGATTGACaGTGGA-----catgcgccagacgcg-tattt-----...1272...atcttttcgag	agccgccca
D. Wil	agaaaaag	gtg-tgcataaac...976...---ttgactttctgt-gagtgca---GCAGCaTTGATTGACaGTGGACATAcGTGCAgctcccgcgcatgatgaaa---...1131...ttgttttgag	agccgccca
D. Yak	agcaaaag	gtg-cgcataata...781...-----tcgccgtgtagtggagtgga---GTGCAGCaTTGATTGACaGTGGA-----atgcgccggggaactattt-----...949...atcttttcgag	agccgccca
	** *	* * *	* * *
		*****	** ** *

id=64569 gene=FBgn0026059 name=Mhcl segment=chr3R.11916813.11918566.-1 type=IN

Figure 347: CS=10.8



```

D.Me1 ccacgagt t-----ttcacaggtc-agtcagctgtacggttctgg---ttttaaac---gtcaaccgaatagcgttACACcaGTGATAGAgcaa--t--aaat--gcggtgtgcc...166...--aaggttacattt ccttttta
D.Sim ccacgtgt t-----ttcacaggtc-agtcagctgtacggttctgg---ttttacac---gtcaaccgaatagcgttACACcaGTGATAGAgcaa--t--aaat--gcggtgtgcc...166...--aaggttacattt ccttttta
D.Sec ccacgtgt t-----ttcacaggtc-agtcagctgtacggttctgg---ttttacac---gtcaaccgaatagcgttACACctGTGATAGAgcaa--t--aaat--gcggtgtgcc...166...--aaggttacattt ccttttta
D.Ere gtctacgt t-----ttcacaggtc-agtcagctgtacggttctgg---ttttaaac---gtcaaccgaatagcgttACACctGTGATAGAgcaa--t--aaat--gcggtgtgcc...142...ggaaggttaca--t ccttttta
D.Ana gcacctt c-----ttcacaagtc-agtcagcagtttggttttggttttttaagccacgtcgacaaaaggcgttACACttGTGATAGAgcat--t--aaat--gcggtgtgcc...147...--atggttacattt tctttcta
D.Gri gcttgggt t-----ttcacaagtc-agtcagctgtttagtt---gttacttgaat---ttaaactctacagcgttACACttGTGATAGAgcaa--ttaaact--gcgact-tgt---...175...--gagttgacattt ttttgaaa
D.Per atttccat t-----ttcacgagtc-agtcagctgttcggttctgg---ttt--gat---gtcaaccgaatagcgttACACttGTGATAGATcaa--t--aaat--gcgactgtgcca...148...--gagcagacactt cttttgca
D.Pse atttccat t-----ttcacgagtc-agtcagctgttcggttctgg---ttt--gat---gtcaaccgaatagcgttACACttGTGATAGATcaa--t--aaat--gcgactgtgcca...148...--gagcagacactt cttttgca
D.Wil tgtattgt g-----ttcacaagtcagtcagctgtgaattt---a--aatttaatatgtgaattccacagcgttACACctGTGATAGAgcaaatttaaataaggaac-----...146...--aagttgacatta tcttttat
D.Yak ctacgttt tcacaggttcacaggtc-agtcagctgtacggttctgg---tattaaac---gtcaaccgaatagcgttACACctGTGATAGAgcaa--t--aaat--gcggtgtgcc...148...--aaggttacattt ctttttta
*          ***** ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

```

id=79085 gene=FBgn0086661 name=snoRNA:Psi28S-2566 segment=chr3L.18889289.18889556_-1 type=EN

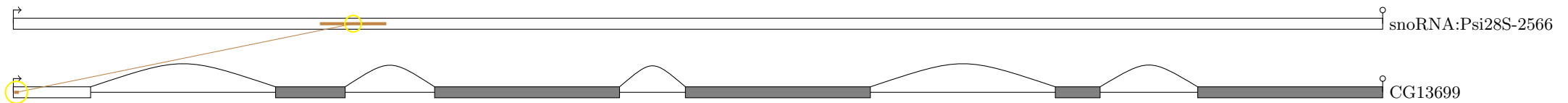
```

D.Me1 --gtgtgagt gtactgtacgtat...458...gggagagcaggcgagagcaa---TTTAcTCACGTGTctatcaaactgtctcccttc...406...ttgttttcacag tgcagcgtt----
D.Sim --gtgtgagt gtactgtacgtat...452...gggagagcaggcgagagcaa---TTTAcTCACGTGTctatcaaactgtctcccttc...400...ttgttttcacag tgcagcgtt----
D.Sec --gtgtgagt gtactgtacgtat...452...gggagagcaggcgagagcaa---TTTAcTCACGTGTctatcaaactgtctcccttc...555...ttgttttcacag tgcagcgtt----
D.Ere --gtgtgagt gtactgtacgtat...446...gggagaacaggcgagagcaa---TTTAcTCACGTGTctatcaaactgtctcccttc...382...ttgttttcacag tgcagcgtt----
D.Ana --gtgtgagt gtgccttctacc...508...agaggcaggagagcgaccaa---TTTAcTCACGTGTctatcaaactgtctcccttc...164...tcttattcacag tgcagcgtt----
D.Gri --gtgtgagt gtcttcgactac...564...--atccgct--tgactgcaataaaTTTAcTCACGTGTctatcgtggcgactacgctg...183...ttgtcttcgag tt---ttgtag
D.Per --gtgtgagt gtgccttctacc...519...gcttccgct--c--cctccaagcaATTAcTCACGTGTctgtcaaactgtctccagcc...126...tcagcgtagccg tgcagcgtt----
D.Pse --gtgtgagt gtgccttctacc...523...gcttccgct--c--cctccaagcaATTAcTCACGTGTctgtcaaactgtctccagcc...127...tcagcgtagccg tgcagcgtt----
D.Wil ttgtgtgaga gagtcgttta...616...aacttggccagcagctgcaa---TTTAcTCACGTGTctatc--aactgactcgtagct...144...tggttctggcag tcaacggtt----
D.Yak --gtgtaagt gtactgtacgtat...443...acgggagcaggcgagagcaa---TTTAcTCACGTGTctatcaaactgtctcccttc...371...ttgttttcacag tgcagcgtt----
*          * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

```

id=77563 gene=FBgn0039000 name=CG6954 segment=chr3R.18492761.18493701_1 type=I5

Figure 348: CS=10.8



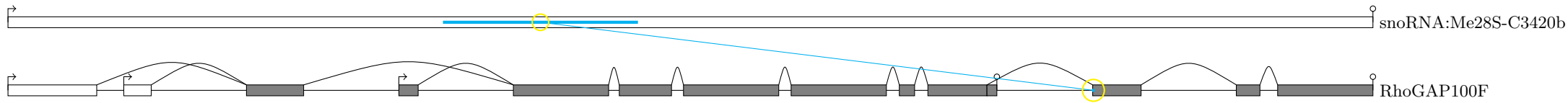
D.Mel	ccacg-----agt	t-----ttcacaggtc-agtcagctgtacggtt---ctggttttaaa--cgtaaccggaatagCGTTACACcaGTGAT-agagcaat--aaatgcggtgtgt...169...--aaggttac--at	cttttta
D.Sim	ccacg-----tgt	t-----ttcacaggtc-agtcagctgtacggtt---ctggttttaca--cgtaaccggaatagCGTTACACcaGTGAT-agagcaat--aaatgcggtgtgt...169...--aaggttac--at	cttttta
D.Sec	ccacg-----tgt	t-----ttcacaggtc-agtcagctgtacggtt---ctggttttaca--cgtaaccggaatagCGTTACACcaGTGAT-agagcaat--aaatgcggtgtgt...169...--aaggttac--at	cttttta
D.Ere	gtcta-----cgt	t-----ttcacaggtc-agtcagctgtacggtt---ctggttttaaa--cgtaaccggaatagCGTTACACctGTGAT-agagcaat--aaatgcggtgtgt...145...ggaaggttac--a--t	cttttta
D.Ana	gcacc-----ttt	c-----ttcacaagtc-agtcagcagtttggttttgggttttttaagccacgtcgaccaaaaggCGTTACACttGTGAT-agagcatt--aaatgcggtgtgt...150...--atggttac--at	tctttcta
D.Gri	gcttg-----ggt	t-----ttcacaagtc-agtcagctgtttagtt---gttacttgaat---ttaactctacagCGTTACACttGTGAT-agagcaattaaaatgcgact---...178...--gagttgac--at	ttttgaaa
D.Moj	ttatggattgtgagtt	t-----ttcacaagta-agtcagctgttcagtt---gtaat---aac---tcaactccacagCGTTACACttGTGAT-agagcaa---atatgcggtgtgt...150...--attgacaaatta	tctttttg
D.Pse	atttc-----cat	t-----ttcacgagtc-agtcagctgttcggtt---ctggttt---ga--tgtcaaccaaatagCGTTACACttGTGAT-agatcaat--aaatgcgactgt...152...--gagcagac--act	cttttgca
D.Wil	-----tgtattgt	g-----ttcacaagtcagtcagctgtgaattt---aaatttaattgtgaattccacagCGTTACACttGTGATagagcaattaaaataggca---...148...--aagttgac--atta	tcttttat
D.Yak	ctacg-----ttt	tcacaggttcacaggtc-agtcagctgtacggtt---ctggattaaa--cgtaaccggaatagCGTTACACctGTGAT-agagcaat--aaatgcggtgtgt...151...--aaggttac--at	cttttta
	*	***** ** ***** ** *	**

id=79085 gene=FBgn0086661 name=snoRNA:Psi28S-2566 segment=chr3L.18889289.18889556_-1 type=EN

D.Mel	cGTCGCGT	GTcaAACG	atcgccgaacttaagccgg...169...aaagtgcagtga	gtaagttg
D.Sim	cGTCGCGT	GTcaAACG	atcgccgaacttaagccgg...168...aaagtgcagtga	gtaagttt
D.Sec	cGTCGCGT	GTcaAACG	atcgccgaacttaagccgg...168...aaagtgcagtga	gtaagttt
D.Ere	cGTCGCGT	GTcaAACG	atcgccgaacttaagccgg...168...aaagtgcagtga	gtaagttg
D.Ana	cGTCGCGT	GTcaAACG	agcgccgaacttaagccgg...175...aaagtgcagtga	gtaagctg
D.Gri	cGTCGCGT	GTcaAACG	atcgccgactcaagccgg...126...gaagtgcagcca	gtaagttg
D.Moj	cGTCGCGT	GTcaAACG	aaagccaaactcaagccgg...128...agccgaaagtgt	gcaaaatc
D.Pse	aGTCGCGT	GTcaAACG	agcgccgactcaagccgg...239...aaagtgcagtga	gtaagttg
D.Wil	tGTCGCGT	GTcaAACG	ggcaccgactcaagccgg...190...ctgtgtatgtga	gtgtgtgt
D.Yak	cGTCGCGT	GTcaAACG	atcgccgaacttgaagccgg...174...aaagtgcagtga	gtaagttg
	*****	*****	* ** ** *	*

id=89642 gene=FBgn0036781 name=CG13699 segment=chr3L.18155407.18155615_-1 type=E5 VIEW

Figure 349: CS=12



D. Mel	-tattaac--t	ggcattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactcttctcaataaaa	---atgagaatactgatatt	tatcaaag
D. Sim	-tattaac--t	ggcattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaaaaccttgactcttctcattaaaa	---atgagaatactgatatt	tatcaaag
D. Sec	-tatcaac--t	ggcattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactcttctcattgaaa	---atgagaatactgatatt	tatcaaag
D. Ere	-tattaac--t	ggcattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactcttctcatataaa	---atgagaatactgatatt	tatcaaag
D. Ana	-ttgaatt--t	ggcattctgatgataaaatca	YGACgGTCTtCATA	atacaaaattgctgaagaaccttgactcttttcacaaa	---atgtgaaaatactgaaaat	tatcaaaa
D. Gri	---ttaatgct	tgtattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactctttttacagaaa	-ctgt-aaaaaactgaaatt	tatcaaca
D. Moj	tatttcttttt	tatttctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactctttttactaa	---atgtaaaaaactgaaaat	tattcaat
D. Per	-atttaat--t	gatattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactcttttt-tacaaa	-atgtaaaaaactgaaact	tttcaatt
D. Pse	-atttaat--t	gatattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaaaaccttgactcttttt-tacaaa	-atgtaaaaaactgaaact	tttcaatt
D. Vir	-ttcta--g	catttctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactctttttactaaaa	---gtaaaaaactgaaagc	tatcaaca
D. Wil	-tacaat--t	tttaactgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactctttttacaaa	aaacatgtaaaaaactgaaata	tacaataa
D. Yak	-tattaac--t	ggcattctgatgataaaatca	YGACgGTCTtCATA	aaacaaattgctgaagaaccttgactcttctcatataaa	---atgagaatactgatatt	tatcaaag

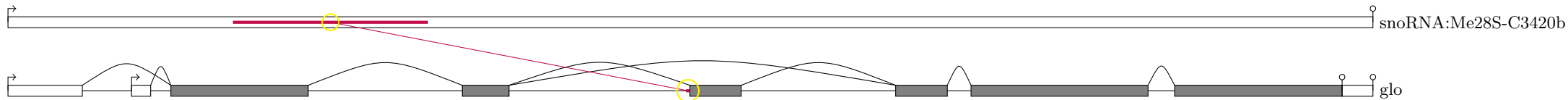
***** * * * * *

id=105075 gene=FBgn0083989 name=snoRNA:Me28S-C3420b segment=chr2R.8086688.8086778.-1 type=EN

D. Mel	ccagaaag	ccccatcccca	-----	..497..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Sim	ccaaatag	ccccaaagccca	-----	..482..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Sec	ccaaatag	ccccaaagccca	-----	..475..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Ere	ccagaaaa	aaccagacccca	-----	..477..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgcggcgagt	c
D. Ana	cctgga	ccacagacacaa	-----	..623..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Gri	ccaaacaa	caacactgcaac	-----	..368..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Moj	-----	-cacgaatactctgacc	aaaaa	..308..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Per	ccaacag	tccccgaaccac	-----	..311..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Pse	ccaacaga	tccccgaaccac	-----	..299..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Vir	---gagac	acacactcactcca	-----	..261..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Wil	-ccaaac	acacaaacacact	-----	..260..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----
D. Yak	cctcaggc	cccaagtccca	-----	..486..	tattgattaatacagagtcc	TATGtAGACag	GTCCGgcgc	-----

id=53765 gene=FBgn0039883 name=RhoGAP100F segment=chr3R.27662956.27663495.1 type=IN

Figure 350: CS=11.4



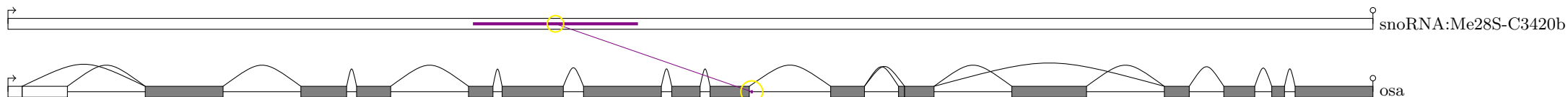
D.Mel	ta-ttaa-ct	ggcattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgatatt	tatcaaag
D.Sim	ta-ttaa-ct	ggcattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgatatt	tatcaaag
D.Sec	ta-tcaa-ct	ggcattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgatatt	tatcaaag
D.Ere	ta-ttaa-ct	ggcattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgatatt	tatcaaag
D.Ana	tt-gaat-tt	ggcattc--TGATGATaaAATCA	tgACGG	tcttcataatacaaaattgct...32...aatactgaaaat	tatcaaaa
D.Gri	--ttaatgct	tgtattc--TGATGATaaAATCATGACGG	tcttcataaaacaaattgct...33...aaaactgaaatt	tatcaaca	
D.Moj	tatttct-tt	tttattctcTGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgaaaat	tattcaat
D.Per	-atttaa-tt	gatattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...33...aaaactgaaact	tttcaatt
D.Pse	-atttaa-tt	gatattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...33...aaaactgaaact	tttcaatt
D.Vir	ttctaagtc-	-atthtc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgaaagc	tatcaaca
D.Wil	tacaat-t-	--TTTAAcTGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...35...aatactgaaata	tacaataa
D.Yak	ta-ttaa-ct	ggcattc--TGATGATaaAATCA	tgACGG	tcttcataaaacaaattgct...32...aatactgatatt	tatcaaag
		*	*****	*****	** ***** *

id=105075 gene=FBgn0083989 name=snoRNA:Me28S-C3420b segment=chr2R.8086688.8086778.-1 type=EN

D.Mel	cttctctg	gtaagtttcctg...612...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggat
D.Sim	cttctctg	gtgagtttcctg...608...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Sec	cttctctg	gtgagtttcctg...608...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Ere	cttctctg	gtgagtttcctg...579...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Ana	cttctctg	gtgagtttcctg...647...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Gri	cttcaccg	gtaagttccatg...930...ctatatatttgataaaatct	TTGTTGtt	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Moj	ctttaccg	gtaagaccatta...725...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Per	ctttactg	gtaagtctcgct...655...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Pse	ctttactg	gtaagtctcgct...660...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Vir	ctttaccg	gtgagtcctatgc...921...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
D.Wil	tttcaactg	gtgagtttcctc...643...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	TGGGcag	ggttggaa
D.Yak	cttctctg	gtgagtttcctg...598...ctatatatttgataaaatct	TTG---	TTGGTTATCGTCA	-tgggcag	ggttggaa
		** * *	** **	*****	*****	*****

id=123159 gene=FBgn0259139 name=glo segment=chr3R.7643061.7643727.-1 type=IN

Figure 351: CS=11.4



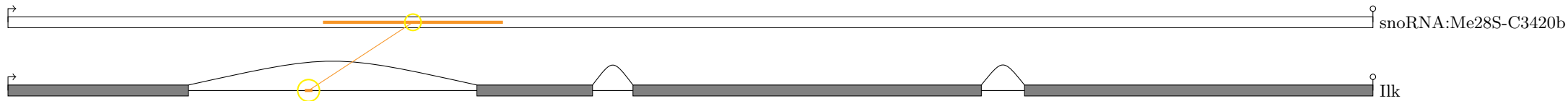
D. Mel	-tattaac--t	ggcattctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-ttctcaataaaa--atgagaatactgatatt	tatcaaag
D. Sec	-tatcaac--t	ggcattctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-ttctcattgaaa--atgagaatactgatatt	tatcaaag
D. Ere	-tattaac--t	ggcattctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-ttctcatataaa--atgagaatactgatatt	tatcaaag
D. Ana	-ttgaatt--t	ggcattctgatgataaaatcatg	ACGGTCTTCATA	Aatacaattgctgaagaaccttgactc-ttttcacaaaat--gtgaaaatactgaaaat	tatcaaaa
D. Gri	---ttaatgct	tgtattctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-tttttacagaaa-ctgtaaaaa-actgaaatt	tatcaaca
D. Moj	tatttcttttt	tattctctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-tttttactaaat--gtaaaaatactgaaaat	tattcaat
D. Pse	-atttaat--t	gatattctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaaaaaccttgactc-tttttacaaaat--gtaaaaaactgaaact	tttcaatt
D. Vir	-ttctaatt--g	cattttctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-tttttactaaaa--gtaaaaatactgaaagc	tatcaaca
D. Wil	-tacaaa--t	ttaaatctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-tttttacaaaaatgtaaaaaactgaaata	tacaataa
D. Yak	-tattaac--t	ggcattctgatgataaaatcatg	ACGGTCTTCATA	Aaacaattgctgaagaaccttgactc-ttctcatataaa--atgagaatactgatatt	tatcaaag
***** ** *					

id=105075 gene=FBgn0083989 name=snoRNA:Me28S-C3420b segment=chr2R.8086688.8086778.-1 type=EN

D. Mel	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...1030...-tcgttcggtcag	gtgaccaa
D. Sec	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...995...-tcgttcggtcag	gtaaccaa
D. Ere	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...977...-tcgttcggtcag	gtgaccaa
D. Ana	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...946...-tcgtccggtcag	gtgactaa
D. Gri	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...720...-tgtgtgcaccag	gtgaccaa
D. Moj	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...616...-tgtgtgtgccag	gtgaccaa
D. Pse	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...925...ccggtg-tgccag	gtgaccaa
D. Vir	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...595...-tgtgtgtgacag	gtaactaa
D. Wil	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...1058...-tcattcaattag	gtgacaaa
D. Yak	tcgtcgag	g TATG c AAGG tg CCGT agtaactccttttactaact...991...-tcgttcggttag	gtgaccaa
***** ** *			

id=133483 gene=FBgn0003013 name=osa segment=chr3R.13522309.13523386.-1 type=IN

Figure 352: CS=10



```

D.Mel -tattaac--t ggcattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgatatt tatcaaag
D.Sim -tattaac--t ggcattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgatatt tatcaaag
D.Sec -tatcaac--t ggcattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgatatt tatcaaag
D.Ere -tattaac--t ggcattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgatatt tatcaaag
D.Ana -ttgaatt--t ggcattctgatGATAAAaTCATGACGgtcttcataatacaaaattgc...33...aatactgaaat tatcaaaa
D.Gri ---ttaatgct tgtattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...34...aaaactgaaat tatcaaca
D.Moj tatttcttttt tattctctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgaaat tattcaat
D.Per -atttaat--t gatattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...34...aaaactgaaact tttcaatt
D.Pse -atttaat--t gatattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...34...aaaactgaaact tttcaatt
D.Vir -ttcta--g cattttctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgaaagc tatcaaca
D.Wil -taca--t tttaatctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...36...aatactgaaata tacaataa
D.Yak -tattaac--t ggcattctgatGATAAAaTCATGACGgtcttcataaaacaaattgc...33...aatactgatatt tatcaaag
***** ** ***** *

```

id=105075 gene=FBgn0083989 name=snoRNA:Me28S-C3420b segment=chr2R.8086688.8086778.-1 type=EN

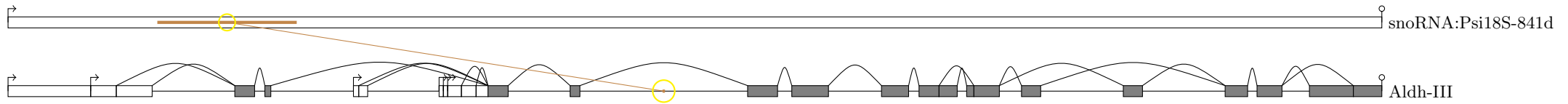
```

D.Mel aatttggg gtaaatccaata...127...-ggtctttcaa--gtc-ta--agtgaCGTCATGATTATTcttgtgttggtgtaaacagac...209...cgtacactttag agacgacc
D.Sim aatttagg gtaaatccaata...127...-ggtctttcaa--gtc-ta--agtgaCGTCATGATTATTcttgtgttggtgtaaacagac...181...cttctactttag agacgacc
D.Sec aatttagg gtaaatccaata...127...-ggtctttcaa--gtc-ta--agtgaCGTCATGATTATTcttgtgttggtgtaaacagac...194...cttctactttag agacgacc
D.Ere aatttggg gtaaaaactaaa...136...-ggtctttcaa--gtc-ta--agtgaCGTCATGATTATTcttgtgttggtgtaaacagac...164...cctgtcctttag ggacgacc
D.Ana aatctggg gtaaaatgatgg...141...atgtgttcgagtggtg----agtgaCGTCATGATTATTcttgtgttggtgtaaacagac...203...tctccattttag ggacgacc
D.Gri aatttggg gtaaaatgtag...115...aaggcgt-----atcgctaaactgaCGTCATGATTATTctagtggttggtgtaaacacc...84...atgcttcgagc tgatgatc
D.Moj aatttggg gtaaaagcgagt...107...-----accaaccaattggaccgtgaCGTCATGATTATTcttgtgttggtgtaaacagat...115...ttgttttgcag cgatgatc
D.Per aatctggg gtaaaaagaac...127...-----attcaagagtc--tagcagtgCGTCATGATTATTcttgcgttggtgtaaacagac...94...cttccttccag agacgacc
D.Pse aatctggg gtaaaaagaac...127...-----attcaagagtc--tagcagtgCGTCATGATTATTcttgcgttggtgtaaacagac...94...cttccttccag agacgacc
D.Vir aatttggg gtaataaaaagt...119...-gga----aagtgctgcagtgCGTCATGATTATTcttgtgttggtgtaaacacc...155...tctctctgcag tgacgacc
D.Wil aatttggg gtaaggtcgac...433...aatgat----gtcttctcatgaCGTCATGATTATTcttgtgttggtataaacagaa...199...cgaattttcag agatgatc
D.Yak aatttggg gtaagactaaaa...130...-ggtctttcaa--gtc-ta--agtgaCGTCATGATTATTcttgtgttggtgtaaacagac...191...cctgtactttag agacgacc
*** * ** ***** * ***** ** ** ** *

```

id=31270 gene=FBgn0028427 name=Ilk segment=chr3L.21210253.21210666.1 type=IN

Figure 353: CS=11.4



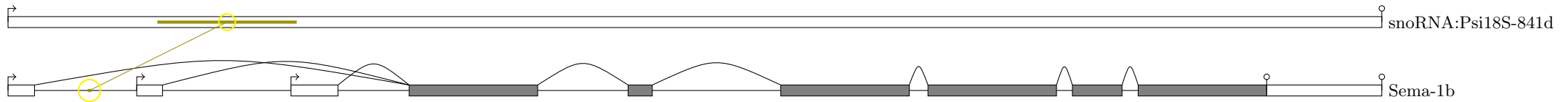
D.Mel	cctacttt	tgcaaa	TGCACTCTGT	TCACATT	---aaaac----	tagcttcg	gtgatg	----	...82...	ccccta	aatga	ccctctta
D.Sim	cctacttt	tgcaaa	TGCACTCTGT	TCACATT	---aaaac----	tagcttcg	gtgatg	----	...82...	ccccta	aatga	ccctctta
D.Sec	cctacttt	tgcaaa	TGCACTCTGT	TCACATT	---aaaac----	tagcttcg	gtgatg	----	...82...	ccccta	aatga	ccctctta
D.Ere	tcatacat	ggcaaa	TGCACTCTGT	TCACATT	---aaaac----	tagcttcg	gtgatg	----	...81...	ccccta	aatga	ccctccta
D.Ana	atagttat	ggcaga	TGCACTCTGT	gaCACAC	---agaaat-----	ccactt	gtacttac	----	...227...	catcaa	aatgat	ggtttaca
D.Gri	tcctttgc	tgcaag	TGCACTCTGT	TCACATTG	at	tttcaata	acaaccacat	-----	...91...	cgcttt	acactc	cttattta
D.Moj	tcttttta	tgcaag	CGCACTCTGT	TCACATTGA	-----	attatc	catgtgatgacaa	...	...83...	cgcttt	acatta	cttttatt
D.Per	ccatttta	ggcaaa	TGCACTCTGT	TCACATT	---gaaac----	actgct	catgtgat	-----	...88...	ctcctt	acacga	cctcaccg
D.Pse	ccaattta	ggcaaa	TGCACTCTGT	TCACATT	---gaaac----	acagct	catgtgat	-----	...88...	ctcctt	acacga	cctcaccg
D.Vir	ttcatcct	tgcaaga	GCACCTCTGT	TCACAT	---aaaat	tttata	acctcatg	-----	...87...	cgctata	actacta	gttcttga
D.Yak	cctacttt	tgcaaa	TGCACTCTGT	TCACATT	---agaac----	tagcttcg	gtgatg	----	...82...	acccta	aatga	gcctctaa
			***	*****	***			*	*			***

id=111815 gene=FBgn0083016 name=snoRNA:Psi18S-841d segment=chr2R.17218411-17218548.1 type=EN

D.Mel	agctttcg	gtgagttactt	...1134...	tctcg-gta-	ttttgag	tgcca-	AGTGTGA	ACGGA	GTGCG	gaggaatc	--tcagcca	aggc...	1188...	gctctttt	--cag	acgcaagc	
D.Sim	agctttcg	gtgagttactt	...1157...	tctcg-gta-	ttttgag	tgcca-	AGTGTGA	ACGGA	GTGCG	gaagaatc	--tcagcca	aggc...	1140...	gctctttt	--cag	acgcaagc	
D.Sec	agctttcg	gtgagttactt	...1170...	tctct-gta-	ttttgag	tgcca-	AGTGTGA	ACGGA	GTGCG	gaagaatc	--tcagcca	aggc...	1128...	gctctttt	--cag	acgcaagc	
D.Ere	agctttcg	gtgagttacat	...1125...	tctcg-gta-	ttttgag	tgcca-	AGTGTGA	ACGGA	GTGCG	gaagaatc	--tcagcca	aggc...	1165...	gctctttt	--cag	acgcaagc	
D.Ana	agctttcg	gtaagtttaagc	...586...	---cg-	atagtttt	gagtgcaa-	GTGTGA	ACGGA	GTGCG	gaagaatc	--ttagcca	aggc...	718...	ttttcttg	--cag	acgcaagc	
D.Gri	agctttcg	gtgagtaacgt	...805...	atgt	gtatgtat	cttaagca-	CAAT	GTGTGA	ACGGA	GTGCG	gacgtat	ctttgg	ccccct--	...1227...	--tgttcatt	ctag	acgcaaac
D.Moj	agctttcg	gtaagtaactgt	...1267...	gtata-	tgggct	ttttgaa	gTCAA	agTGTGA	ACGGA	GTGCG	gacgttc	catata	ataac--	...2001...	cccgca	aat--tag	acgcaaac
D.Per	agctttcg	gtaagttgaatc	...626...	---ccg-	atagtttt	gatttgcca-	AGTGTGA	ACGGA	GTGCG	gaagaatc	--tgcgcca	aggc...	762...	--tcgatt	caag	tcgcaagc	
D.Pse	agctttcg	gtaagttgaatc	...612...	---ccg-	atagtttt	gatttgcca-	AGTGTGA	ACGGA	GTGCG	gaagaatc	--tgcgcca	aggc...	761...	--tcgatt	caag	tcgcaagc	
D.Vir	agctttcg	gtaagtaactgt	...876...	----	aaaaaaaa	aaaaatacaaa-	GTGTGA	ACGGA	GTGC	ggaata	atcttt	ggcccc	--	...1828...	atcg	ttaat--tag	acgcaagc
D.Yak	aactttcg	gtgagttactt	...1190...	tcgcg-gta-	tcttgag	tgcca-	AGTGTGA	ACGGA	GTGCG	gaagaatc	--tcagcca	aggc...	1084...	gctctttt	--cag	acgcaagc	
	* *****	** ***					*****	*****	*	*			**	*****	*		

id=38530 gene=FBgn0010548 name=Aldh-III segment=chr2R.3358388-3360792.-1 type=IN VIEW

Figure 354: CS=14.63



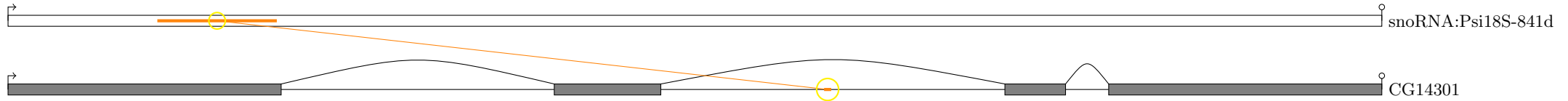
D.Mel	cctacttt	tGCAAaTGCACtCTGTGtCACa	-----	ttaaaactagcttcgtgtga	-----	...84...	ccctaacaatga	ccctctta
D.Sim	cctacttt	tGCAAaTGCACtCTGTGtCACa	-----	ttaaaactagcttcgtgtga	-----	...84...	ccctaacaatga	ccctctta
D.Sec	cctacttt	tGCAAaTGCACtCTGTGtCACa	-----	ttaaaactagcttcgtgtga	-----	...84...	ccctaacaatga	ccctctta
D.Ana	atagttaa	ggcAGATGCACtCTGTgACACAcaGAAA	-----	tccacttgtacttacaattt	-----	...222...	catcaacaatgt	ggtttaca
D.Gri	tcctttgc	tgcAAGTGCACtCTGTGtCACa	-----	ttgattttcaataacaacca	-----	...94...	cgctttacactc	cttatta
D.Moj	tcttttta	tgcAGGCGCACTCTGTGtCACAtTGAAAtATCT	-----	catgtgatgacaatttgta	...	...76...	cgctttacatta	cttttatt
D.Pse	ccaattta	ggcAAATGCACtCTGTGtCACAtTGAAA	-----	ca--cagcctcatgtgatgaca	-----	...84...	ctccttacacga	cctcaccg
D.Vir	ttcacctt	tgcAAGAGCACTCTGTAtCACATAAAATTT	tt--a--	taacctcatgtga-gaca	-----	...80...	cgctatacacta	gttcttga
D.Wil	aattcctt	agcaAGCGCACTCTGTGtCACa	-----	ttcga--caacctcatgtga-at	-----	...80...	tgtctaagacag	ctttttca
		***	*****	***			*	*

id=111815 gene=FBgn0083016 name=snoRNA:Psi18S-841d segment=chr2R.17218411-17218548.1 type=EN

D.Mel	gaatthtg	gtgagttgaaaa...167...	-----	agcaacaacaggttttcat--	TGTGTACAGAcGTGTGTTGc	tctaccctc---	tcgctctcgcc...	147...	-----	agtggttaaagtt	gagtcgaa-
D.Sim	gaatthtg	gtgagttgaaaa...167...	-----	agcaacaacaggttttcat--	TGTGTACAGAcGTGTGTTGc	tctgcctc---	tcgctctcgcc...	147...	-----	agtggttaaagta	aagttgag-
D.Sec	gaatthtg	gtgagttgaaaa...167...	-----	agcaacaacaggttttcat--	TGTGTACAGAcGTGTGTTGc	tctgcctc---	tcgctctcgcc...	156...	-----	taaagtaaagtt	gagtcgaa-
D.Ana	aagthtg	gtgagtcgaa...166...	-----	ataaaaagcaacaacaggt--	TTTcAtTGTGTACAGAcGTGTGTTT	-----	cctcccgtacactacacta...	146...	-----	ccaagtgtaaag--	agccaac-
D.Gri	gaatthtg	gtgagtcagtg...215...	-----	agtaacaacaggtttttat--	TGTGTACAGAcGTGTGTTT	ttctctcttt---	taatttatgc--	185...	-----	cagtcgagtgctgaagtg	gc-----
D.Moj	gaatthtg	gtgagtttaatg...185...	cctagagtcagcaacaac--	AGGTtTTTA	TGTGTACAGAcGTGTGTTT	ttctctcttt---	taatttatgc--	178...	-----	cagacgaa-ggcgaagca	gca-----
D.Pse	gaatthtg	gtgagttaaaag...166...	-----	tataaaagcaacaacaggt--	TTTTAtTGTGTACAGAcGTGTGTTT	ttctctctctctataattt---	-----	194...	-----	agtggttaaagtc	g-gtggctt
D.Vir	gaatthtg	gtgagttcagtg...189...	cctagagtcagcaacaac--	AGGTtTTTA	TGTGTACAGAcGTGTgTTTT	ttctctcttt---	taatttatgca-	207...	-----	agtgctaaagtg	gcgccaa-
D.Wil	aagthtg	gtgagtttaaaa...192...	-----	agcaacaacaggtttttat	TGTGTACAGAcGTGTGTT	acttctctt---	gccctgtcg...	192...	-----	agctaagctctaaagt-	----caaa-
		* ****	*****	*	*****	*	*****	*		***	

id=103430 gene=FBgn0016059 name=Sema-1b segment=chr2R.13570500-13570897.-1 type=I5 VIEW

Figure 355: CS=10.62



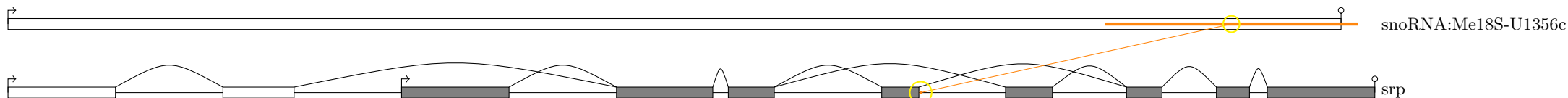
D.Mel	cctacttt	tgcaa	ATGCACTCTGTGTCA	cattaaaac-tagcttcgtgt--...86...cccctaacatga	ccctctta
D.Sim	cctacttt	tgcaa	ATGCACTCTGTGTCA	cattaaaac-tagcttcgtgt--...86...cccctaacatga	ccctctta
D.Sec	cctacttt	tgcaa	ATGCACTCTGTGTCA	cattaaaac-tagcttcgtgt--...86...cccctaacatga	ccctctta
D.Ere	tcatacat	ggcaa	ATGCACTCTGTGTCA	cattaaaac-tagcttcgtgt--...85...cccctaacatga	ccctccta
D.Gri	tcctttgc	tgcaa	GTGCACTCTGTGTCA	cattgattttcaataaac---...96...cgctttacactc	cttattta
D.Moj	tcctttta	tgcaaggc	GCACTCTGTGTCA	cattga---attatctcatgtga...89...cgctttacatta	cttttatt
D.Per	ccatttta	ggcaa	ATGCACTCTGTGTCA	cattgaaacactgcctcatg---...92...ctccttacacga	cctcaccg
D.Pse	ccaattta	ggcaa	ATGCACTCTGTGTCA	cattgaaacacagcctcatg---...92...ctccttacacga	cctcaccg
D.Wil	aattcctt	agcaaagc	GCACTCTGTGTCA	cattcg---acaacctcatgtga...82...tgtctaagacag	ctttttca
			***	*****	* * * *

id=111815 gene=FBgn0083016 name=snoRNA:Psi18S-841d segment=chr2R.17218411-17218548.1 type=EN

D.Mel	cattcccc	gtgggtaatgga...259...acgagcgcgaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...291...--aatcatttgca	gtcgtcct
D.Sim	cattcccc	gtgcgtaatgga...261...acgagcgcgaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...281...--aatcatttgca	gtcgtcct
D.Sec	cattcccc	gtgggtaatgga...266...acgagcgcgaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...281...--aatcatttgca	gtcgtcct
D.Ere	cattcccc	gtaaccaaatga...235...ggacgagcgaaatggatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...297...--aatcatttgca	gtcgtcct
D.Gri	cataccgg	gtaagtgcaccg...203...tatttttcgaatggaaaatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...285...ataacc--ttgcag	gtcgacct
D.Moj	aataccgg	gtgagcattaca...875...tatttttcgaatggaaaatt	TGGCACAGAA	GTGC	agctactcgtaaattcattt---...302...ataatc--tttcag	gtcgacca
D.Per	cattccgg	gtaagtttttgg...539...aatggcacggaatgaatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...298...--aatcattcacag	gtcgtcct
D.Pse	gattccgg	gtaagttttttag...513...aatggcacggaatgaatatt	TGGCACAGAA	GTGCAT	ctactcgtaaattcatttat...305...--aatcattcacag	gtcgtcct
D.Wil	cataccgg	gtaagtactaag...297...atttttccgaaccgaatatt	TGGCACAGAA	GTGC	atctactcgtaaattcattt---...334...--aatcatttgca	gtcgccca
	** * *	** * *	***	*****	*****	** * * **

id=118864 gene=FBgn0038632 name=CG14301 segment=chr3R.14455812-14456441.-1 type=IN

Figure 356: CS=10.62



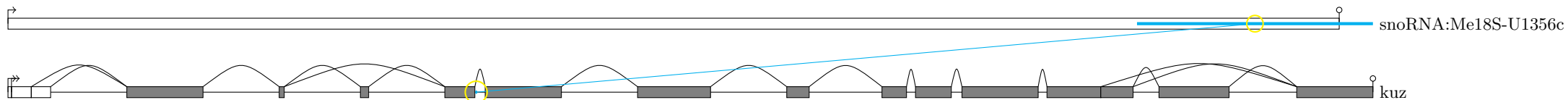
D. Mel	tttaa----act	gcctt--cttgatgacaacttcatacccaactcagaaaaactatgttgaaatct-TTTTAACATgcATCAccATCT-----gatta-----a	aaatatgc---
D. Sim	tttta----act	ccttt--cttgatgacaacttcatacccaactcagagaaactatgttgaaatct-TTTTAACATgcATCAccATCT-----gatta-----a	aaatatac---
D. Sec	tttta----aat	ccttt--cttgatgacaacttcatacccaactcagagaaactatgttgaaatct-TTTTAACATgcATCAccATCT-----gatta-----a	aaatttac---
D. Ere	tttaa----act	acttt--tttgatgacaacttcattctcaactcagagaaactatgttgaaatct-TTTTAACATgcATCAccATCT-----gaataa-----a	aaatata---
D. Ana	cttcataaatatt	cccctaattgatgataacttcatacccaactcagaaacttatgttgaaatct-TTTTAACATgcATCAccATCT-----gaataa-----a	tcataaa---
D. Gri	gtaaa-----a	acctttcaatgatgacaatttcataccctactcagagcaattatgttgaaatctatta-ACATgcATCAccATCT-----gactaattcca	aaacaaaaaga
D. Pse	----caagtatt	cccat--aatgatgacaacttcatacgaatctcagagcaattatgttgaaatctatta-ACATgcATCAccATCT-----gatat-----a	-attagcc---
D. Vir	ctaaa-----t	atthttactgatgacaacttcatacacaactcagaaactatgttgaaat-CTGTtaACATgcATCAccATCTgattttgacaa-----a	cattat---
D. Wil	attat-----gta	gcctt--aatgatgacaatttcatacgaatctcagagcaattatgttgaaatccttttaACATgcATCAccATCT-----gataatctccc	aagtcaat---
D. Yak	tttaa----act	gcctt--tttgatgacaacttcatacccaactcagagaaactatgttgaaatct-TTTTAACATgcATCAccATCT-----gaataa-----a	aaatata---
		* ***** ** ** * * **** * ***** ** *****	

id=60225 gene=FBgn0082947 name=snoRNA:Me18S-U1356c segment=chr3L_20447596_20447674_1 type=EN

D. Mel	gaAGATTG	GTaaATGTcTAAAA	caaat-tcacaaatcacaaa---...357...gctcaattccag	tggccgct
D. Sim	gaAGATTG	GTaaATGTcTAAAA	caaat-tcacaaatcacaaa---...379...gctcaattccag	tggccgct
D. Sec	gaAGATTG	GTaaATGTcTAAAA	caaat-tcacaaatcacaaa---...349...gctcaattccag	tggccgct
D. Ere	gaAGATTG	GTaaATGTcTAAAA	caaat-tcacaaatcacaaa---...340...gctcaattccag	tggccgct
D. Ana	gaAGATTG	GTaaATGTcTAAAAA	-aaa-tcacaca-cacaactat...290...gctcaattacag	tggccgct
D. Gri	gaAGATTG	GTaaATGT	-----caacagcaacaacaatt---...411...gcattattacag	tggccgct
D. Pse	gaAGATTG	GTaaATGT	-----ctctc-tctctctcacaca---...418...atataattacag	tggccgct
D. Vir	gaAGATTG	GTaaATGTcAACAG	caacagtaacagtaacagca---...472...gcattattacag	tggccgct
D. Wil	gaAGATTG	GTaaATGT	-----caata-aaacaacaaaaaa---...326...ttacaattacag	tggccgct
D. Yak	gaAGATTG	GTaaATGTcTAAAA	caaat-tcacaaatcacaaa---...372...gctcaattccag	tggccgct
	*****	*****	* *	*** **

id=67434 gene=FBgn0003507 name=srp segment=chr3R_11826508_11826910_1 type=IN

Figure 357: CS=10



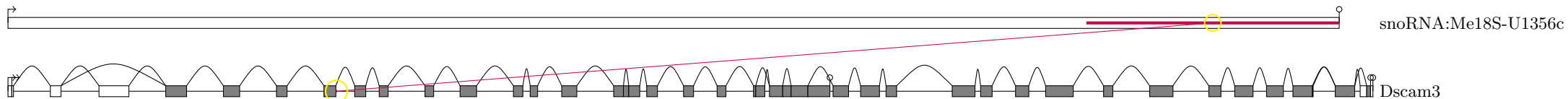
D. Mel	----tttaaac	gccttcttgatg...26...ctatggtgaaat-ctttttaa	CATGCaTCACcaTCTGAT	-----taa	aaatagc---
D. Sim	----tttaaac	cctttcttgatg...26...ctatggtgaaat-ctttttaa	CATGCaTCACcaTCTGAT	-----taa	aaatatac---
D. Sec	----tttaaac	cctttcttgatg...26...ctatggtgaaat-ctttttaa	CATGCaTCACcaTCTGAT	-----taa	aaatttac---
D. Ere	----tttaaac	acttttttgatg...26...ctatggtgaaat-ctttttaa	CATGCaTCACcaTCTGA	-----ataaa	aaatata---
D. Ana	cttcataaatat	tccc--ctaa--...34...-tatggtgaaat-ctttttaa	ATGCaTCACcaTCTGA	-ataaatcat	aaa-----
D. Gri	----gtaaaaac	ctttcaatgatg...27...-tatggtgaaat-ctatttaac	ATGCaTCACcaTCTGAC	taatttcca	aaacaaaaaga
D. Pse	----caagtatt	cccataatgatg...27...-tatggtgaaat-cctattaac	ATGCaTCACcaTCTGAT	-----at	aattagcc---
D. Vir	c---taaatat	ttttactgatg...27...-tatggtgaaat-ctgtttaac	ATGCaTCACcaTCTGAT	tttgacaaa	cattatatt---
D. Wil	----attatgta	gctttaatgatg...28...-atggtgaaatcctttttaa	ATGCaTCACaTCTGAT	-aatctccc	aagtcaat---
D. Yak	----tttaaac	gcttttttgatg...26...ctatggtgaaat-ctttttaa	CATGCaTCACaTCTGA	-----ataaa	aaatata---
		* *	***** * *****		*

id=60225 gene=FBgn0082947 name=snoRNA:Me18S-U1356c segment=chr3L.20447596.20447674.1 type=EN

D. Mel	aGTTAGAc	GTGAGTATG	-----gctatacaaatcatct-----gga---acgtaagttcta	gtatgtattgtatgtttgtatttgcag	ttttatga		
D. Sim	aGTTAGAc	GTGAGTATG	-----gctatacaaatcatct-----gga---acatacgttcta	atgcatgtattgtatgtttgtatttgcag	ttttatga		
D. Sec	aGTTAGAc	GTGAGTATG	-----gctatacaaatcatct-----gga---acatacgttcta	atgcatgtattgtatgtttgtatttgcag	ttttatga		
D. Ere	agTTAGAc	GTGAGTATG	-----gctatc	taaatcagcc-----gaac-----gtgtattc	taatgt-----ttgcactttgtatttgcag	ttttatga	
D. Ana	agTTAGAc	GTGAGTAT	---tgtctctgtcaagtg	tatggtactaataat-----ttaactaattct-tgtattaactt-----g	tttttaatttccag	ttttatga	
D. Gri	aGTTAGAc	GTGAGTAT	-----ttattaacttcattc-----aacgtaata	tacatactaaatatgaatacatcatt-----ttgcag	tcttatga		
D. Pse	aGTTAGAc	GTGAGTAT	atcctttgcatctctt-tt	taaaacaatcattt-----tcatatacatatata	tttttgtgt-----gtt-----tag	ttttatga	
D. Vir	aGTTAGAc	GTGAGTAT	-----tatcaa-cata	tatgaattatatt-----taaaataataatcgaatt	taattt-----gtt-----atcccag	ttttatga	
D. Wil	aGTTAGAc	GTGAGTAT	-----attatatc	ttttgtccattttgga---at	atggttttgaatac-----c	ttttcctttgggatttgcag	ttttatga
D. Yak	agTTAGAc	GTGAGTATG	-----gctat	ttaaatcaacc-----gaacg	tatgtatgttatatagt-----ttgcactttgtatttgcag	ttttatga	
	*****	*****	** *	*	** *****		

id=26456 gene=FBgn0259984 name=kuz segment=chr2L.13609988.13610055.1 type=IN

Figure 358: CS=10



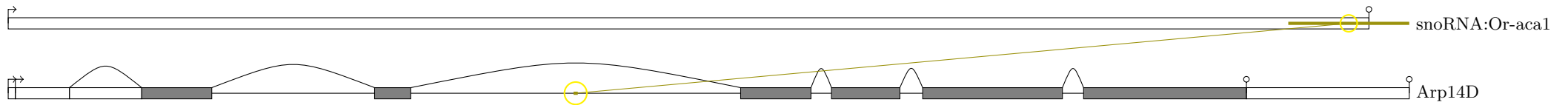
D. Mel	tttaa----act	gcctt--cttgatgacaacttcatacccaactcagaaaaactatgttgaaatctttt	TAACATgCATCacCATCT	-----gatta-----a	aaatatgc---
D. Sim	tttta----act	ccttt--cttgatgacaacttcatacccaactcagagaaactatgttgaaatctttt	TAACATgCATCacCATCT	-----gatta-----a	aaatatac---
D. Sec	tttta----aat	ccttt--cttgatgacaacttcatacccaactcagagaaactatgttgaaatctttt	TAACATgCATCacCATCT	-----gatta-----a	aaatttac---
D. Ere	tttaa----act	acttt--tttgatgacaacttcattctcaactcagagaaactatgttgaaatctttt	TAACATgCATCacCATCT	-----gaataa-----a	aaatatac---
D. Ana	cttcataaatatt	cccctaaatgatgataacttcatacccaactcagaaacttatgttgaaatctttt	TAACATgCATCacCATCT	-----gaataa-----a	tcataaaa---
D. Gri	gtaaa-----aac	ctttc--aatgatgacaatttcataccctactcagagcaattatgttgaaatctatt	TAACATgCATCacCATCT	-----gactaattcca	aaacaaaaga
D. Pse	caagt-----att	cccat--aatgatgacaacttcatacgaatctcagagcaattatgttgaaatcttat	TAACATgCATCacCATCT	-----gatat-----a	-attagcc---
D. Vir	ctaaa-----t	atthttactgatgacaacttcatacacaactcagaaactatgttgaaatctgtt	TAACATgCATCacCATCT	gattttgacaa	---cattat---
D. Wil	attat-----gta	gcttt--aatgatgacaatttcataatgtacagagaaactatgttgaaatctttt	TAACATgCATCacCATCT	-----gataatctccc	---aagtcaat---
D. Yak	tttaa----act	gcttt--tttgatgacaacttcatacccaactcagagaaactatgttgaaatctttt	TAACATgCATCacCATCT	-----gaataa-----a	aaatatac---
		***** ** ** * * **** * ***** * *****			

id=60225 gene=FBgn0082947 name=snoRNA:Me18S-U1356c segment=chr3L_20447596_20447674_1 type=EN

D. Mel	gGATGtcG	GTGaGTGTTG	ccaca-ttttaacgggcgggg...214...atttccgaacag	cgggacgc
D. Sim	gGATGtcG	GTGaGTGTTG	ccaca-ttttaacgggcgggg...214...atttccgaacag	cgggtcgc
D. Sec	gGATGtcG	GTGaGTGTTG	ccaca-ttttaacgggcgggg...189...atttccgaacag	cgggtcgc
D. Ere	gGATGtcG	GTGaGTGTTG	ccaca-ttttaacgggctaac...230...atttccgaacag	cgggtcgc
D. Ana	gGATGtTG	GTGaGTGTTG	ccaca-ttttaacaacaacaa...256...atttccgaacag	cgggtcgc
D. Gri	gGATGtTG	GTGaGTGTTG	ccaca-gttttacacacacac...347...gattcactgcag	ctggtcgc
D. Pse	gGATGtcG	GTGaGTGTTG	ccaca-ttttaacacacacacg...248...atttctgcacag	cgggtcgc
D. Vir	gGATGtTG	GTGaGTGTTG	ccaca-tttttacacacacac...338...gcttcaactgcag	ccgggtcgc
D. Wil	gGATGtgG	GTGaGTGTTG	ccacatttttgcttatata...274...atttctgtgcag	cgggtcgc
D. Yak	gGATGtcG	GTGaGTGTTG	ccaca-ttttaacgggcgggg...221...atttccgaacag	cgggtcgc
	*****	*	*****	*** ** * ** ** *

id=75767 gene=FBgn0261046 name=Dscam3 segment=chr3R_13317902_13318157_-1 type=IN

Figure 359: CS=10



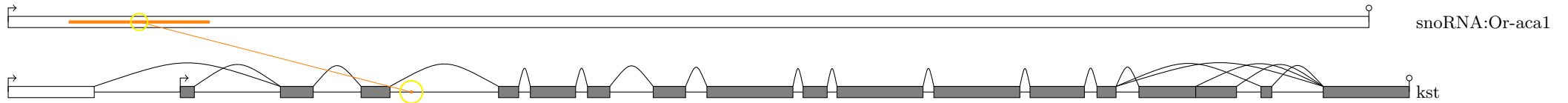
D.Mel	ctcctagc	accttctcccag...81...-----tggcagatttgaccattgtt-----	ATTTgaGGCTTCATCGACA-----	ctt	tgattaac
D.Sim	atcctagc	accttctcccag...81...-----tggcagatttgaccattgct-----	ATTTgaGGCTTCATCGACA-----	ctt	tgattaac
D.Sec	ctcctagc	accttctcccag...81...-----tggcagatttgaccattgct-----	ATTTgaGGCTTCATCGACA-----	cttt	tgattaa-
D.Ere	tttctagc	accttctcccag...82...-----tggcagatttgaccattgct-----	ATTTgaGGCTTCATCGACA-----	cttcagc	aaacttt
D.Ana	tatccggc	accttctcccag...90...-----tctgaccattgctattttga-----	GGCTTCATCGACA-----	cactt	---ttaac---
D.Moj	ttaagttc	accttctaccag...86...-----ca---ttgaccattgcaattccc	ATTTggGGCTACATCGACAgaTAGAT	-----	att
D.Per	ataaaggc	accttctaccag...77...agcaatcggtcgatttgacc-----	AAAGctATTTgaGGCTTCATCGACATTAAA	-----	--attatg
D.Pse	ataaaggc	accttctaccag...84...-----ggccgaatttgaccaatgct-----	ATTTgaGGCTTCATCGACATTAAA	aTTGT	-----g
D.Vir	ttagcagc	accttctaccag...87...-----caattaagattgaccattgct-----	ATTTgaGGCTACATCGACAT	tccccg	tagatgaatccg
D.Yak	tatccagc	accttctcccag...82...-----tggcagatttgaccattgct-----	ATTTgaGGCTTCATCGACA-----	cttcagc	caaac-tt
		* ***** *	* **	* **** *****	

id=86314 gene=FBgn0082925 name=snoRNA:Or-aca1 segment=chr2R.18495049.18495183.1 type=EN

D.Mel	aagtcaag	gtatgatccatc...826...-----aatgtttgaggatttaca	TGTCGATGtAAGTCAAGT	ttgtatagtta	-----	aaaaaaaa	...966...acgaatttacag	gatctgat
D.Sim	aagtcaag	gtatgggccatc...807...-----aatatgttgcaggatttaca	TGTCGATGtAAGTCAAGT	ttgtatagtta	-----	aaaaaaaa	...941...acgaatttacag	gatctaat
D.Sec	aagtaaag	gtatgggccatc...799...-----aatatgttgcaggatttaca	TGTCGATGtAAGTCAAGT	ttgtatagtta	-----	aaaaaaaa	...945...acgaatttacag	gatctgat
D.Ere	aagtcaag	gtatgatccatc...807...-----aatatgttgcaggatttaca	TGTCGATGtAAGTCAAGT	ttgtatagttt	-----	aaaaccaa	...924...acgaatttacag	gatctgat
D.Ana	aagtgaag	gtatgagaagcg...1242...-----tgaacaaaatattttacagg	ATTTcaTGTCGATGtAAGTCAAGT	ttttagctt	-----	aaaaaaaa	...930...gccattttacag	gatctgat
D.Moj	aagtcaag	gtatgagaagcg...1242...-----tgaacaaaatattttacagg	ATTTcaTGTCGATGtAAGTCAAGT	ttttagctt	-----	aaaaaaaa	...930...gccattttacag	gatctgat
D.Per	aagtgaag	gtatgaccagcg...1192...-----aatataaatattttgcagg	TTTAcATGTCGATGtAAGTCAAGT	ttttagctt	-----	aaaaaaaa	...1078...aaaacctttcag	gatctgat
D.Pse	aagtgaag	gtatgaccagcg...1183...tttgaataacaaatatttt	GCAGgaTTTAcATGTCGATGtAAGTCAAGT	ttttagctt	-----	aaaaaaaa	...1098...aaaacctttcag	gatctgat
D.Vir	aagtgaag	gtatgagaagcg...1182...-----aatatgttgcaggatttaca	ATGTCGATGtAAGTCAAGT	ttttagctt	-----	aaaaaccgt	...1015...ggcatttacag	gaccttat
D.Yak	aagtcaag	gtatgatccatc...816...-----aatatgttgcaggatttaca	TGTCGATGtAAGTCAAGT	ttgtatagttt	-----	aaaaaaaa	...1006...acgaatttcag	gatctgat
	**** *	*****	*** **	*****	*****	*****	** **	** ** *

id=103474 gene=FBgn0011742 name=Arp14D segment=chrX.16444499.16446372.-1 type=IN

Figure 360: CS=10.8



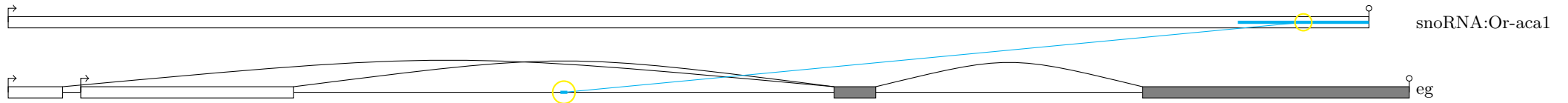
D.Mel	ctccta-GC	ACcTTCTccCAGAT	ttttggtggaacttatagcc...89...	tcatcgacac-tt	tgattaac
D.Sim	atccta-GC	ACcTTCTccCAGAT	ttttggtggaacttatagcc...89...	tcatcgacac-tt	tgattaac
D.Sec	ctccta-GC	ACcTTCTccCAGAT	ttttggtggaacttatagcc...89...	tcatcgacacttt	tgattaac
D.Ere	tttcta-GC	ACcTTCTccCAGAT	ttttggtggaacttatagcc...103...	-cagccaaacttt	tgattcac
D.Ana	tatccg-GC	ACcTTCTccCAGAT	ttttggtggaagtctctgcc...92...	tcatcgacacact	tt-taaac
D.Gri	ttaagg-GC	ACcTTCTAcCAGAT	ttttggtggaataatttat...93...	acaacgacac-tt	ttattatg
D.Per	-ataaagGC	ACcTTCTAcCAGAT	ttttggtggaagttaatgcc...91...	tcatcgacat-ta	aaattatg
D.Pse	-ataaagGC	ACcTTCTAcCAGAT	ttttggtggaagttaatgcc...92...	tcatcgacat-ta	aaattgtg
D.Vir	ttagca-GC	ACcTTCTAcCAGAT	attcgctggatcctctacca...103...	-attccccgtaga	tgaatccg
D.Yak	tatcca-GC	ACcTTCTccCAGAT	ttttgctggaacctatagcc...102...	gcagccaaac-tt	tgtttagg
		** ***** ** * **			*

id=86314 gene=FBgn0082925 name=snoRNA:Or-aca1 segment=chr2R.18495049.18495183.1 type=EN

D.Mel	acaccaag	gtgagatatgcc...77...	gagtgtaaagctct-ctacgc	ATTTGtAGAAA	GTGC	aagtc-----	gagcctgagcagctg...1449...	ctttcgtcttag	gtccgtct
D.Sim	acaccaag	gtgagatatgcc...77...	gagtgtagagctct-ctacgc	ATTTGtAGAAA	GTGC	aagtc-----	gagcctgagcagctg...1946...	ctttcgttttag	gtccgtct
D.Sec	acaccaag	gtgagatatgcc...84...	gagtgtagagctct-ctacgc	ATTTGtAGAAA	GTGC	aagtc-----	gagcctgagcagctg...1356...	ctttcgttttag	gtccgtct
D.Ere	acaccaag	gtgagatatacc...68...	gagtgtggagctct-ctacgc	ATTTGtAGAAA	GTGC	aagtc-----	gagcctgagcagctg...1425...	ctttcattttag	gtccgtct
D.Ana	acaccaag	gtgagaggcagt...55...	gggag-agagctctactacgc	ATTTGtAGAAA	GTGC	aagtc-----	gagcctgagcagctg...1306...	gtgggctaacag	gtacgctt
D.Gri	acaccaag	gtaaacataagt...52...	gagtttgcttaggc-ctacgc	ATTTGTAGAAA	GTGC	aagtc--	ttgaagcagctgagc-----	...1321...	ccaaccaccag
D.Per	acacaaag	gtgagagacgca...99...	agtggagtgatct-ttacgc	ATTTGTAGAAA	GTGC	aagtc-----	tgaggctgagcagcc-...	2127...	ccattcaaaag
D.Pse	acacaaag	gtgagagacgca...99...	agtggagtgatct-ttacgc	ATTTGTAGAAA	GTGC	aagtc-----	tgaggctgagcagcc-...	2153...	ccattcaaaag
D.Vir	acaccaag	gtacgtaagagg...29...	agagagaaaaggc-ctacgc	ATTTGTAGAAA	GTGC	aagtc-----	ctcttgaggcagctgc-----	...1909...	taacaacaacag
D.Yak	acaccaag	gtgagatatacc...95...	gagtgaggagctct-ctacgc	ATTTGtAGAAA	GTGC	aagtc-----	gagcctgagcagctg...1496...	ctttcattttag	gtccgtct
	**** **	**		*****		** **		** ** *	** ** *

id=25752 gene=FBgn0004167 name=kst segment=chr3L.3352133.3353737.1 type=IN

Figure 361: CS=10.8



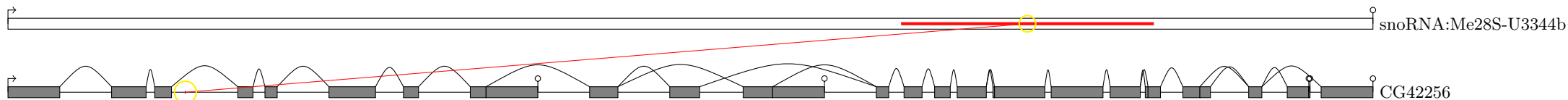
D.Mel	ctcctagc	accttctcccag...82..ggcagatttgaccattgta-----	TTTGA	GGCTTCATCG	--ac-----ac-tt	tgattaac
D.Sim	atcctagc	accttctcccag...82..ggcagatttgaccattgcta-----	TTTGA	GGCTTCATCG	--ac-----ac-tt	tgattaac
D.Sec	ctcctagc	accttctcccag...82..ggcagatttgaccattgcta-----	TTTGA	GGCTTCATCG	--ac-----acttt	tgattaac
D.Ere	tttctagc	accttctcccag...83..ggcagatttgaccattgcta-----	TTTGA	GGCTTCATCG	acacttccagccaaacttt	tgattcac
D.Ana	tatccggc	accttctcccag...85...-gcagatctgaccattgctat-----	TTTGA	GGCTTCATCG	acac-----acttt	ta---aac
D.Moj	ttaagttc	accttctaccag...87...-----attgaccattgcaattccca	TTTGA	GGCTTCATCG	--ac-----agatagatatt	t-----
D.Per	ataaaggc	accttctaccag...84..ggtcgatttgaccaaagcta-----	TTTGA	GGCTTCATCG	acac-----taaaatta	tg-----
D.Pse	ataaaggc	accttctaccag...85...gccgaatttgaccaatgcta-----	TTTGA	GGCTTCATCG	acac-----taaaattg	tg-----
D.Vir	ttagcagc	accttctaccag...88...aattaagttgaccattgcta-----	TTTGA	GGCTTCATCG	acattccccgtaga----	tgaatccg
D.Yak	tatccagc	accttctcccag...83..ggcagatttgaccattgcta-----	TTTGA	GGCTTCATCG	acacttgcagccaaac-tt	tgtttagg
		* ***** *			* * * * *	*

id=86314 gene=FBgn0082925 name=snoRNA:Or-aca1 segment=chr2R_18495049_18495183.1 type=EN

D.Mel	tggaaaag	gtaagattttgt...3404...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...1506...ttttgttcag	atgaacca
D.Sim	tggaaaag	gtaagattttgt...3084...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...1826...ttttgttcag	atgaacca
D.Sec	tggaaaag	gtaagaattttgt...3089...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...1821...ttttgttcag	atgaacca
D.Ere	agaaaaag	gtaaggtttttt...3633...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...1277...aattgttcag	atgaacca
D.Ana	taggaaaag	gtaagctcatat...3390...tgcagggtctgagactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...572...aatccttacag	atgaacca
D.Moj	gtgaaaag	gtgagtgaatga...3896...--cgttaccctctcggacgg	CGGTGc	AGCCCAAA	ccggtcgctgcatacctcaa...1014...tatcattgcag	atgaacca
D.Per	ataaaaag	gtaactacgcaa...3507...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...449...ttcgtttgcag	atgaacca
D.Pse	ataaaaag	gtaactacgcaa...3514...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...450...ttcgtttgcag	atgaacca
D.Vir	gtgaaaag	gtgagtgcagcc...3629...cttcggtgacctttttgga--	TGGTGc	AGCCCAAA	ccggtcgctgcatacctcaa...502...tggcaatttcag	atgaacca
D.Yak	tggaaaag	gtaagatcgctc...3415...tgccgcgaccgaaactttga--	TGGTGc	AAGCCCAAA	ccggtcgctgcatacctcaa...1495...ttttgttcag	atgaacca
	****	** *			* * * * *	** ** *

id=40904 gene=FBgn0000560 name=eg segment=chr3L_21802338_21807878.1 type=IN

Figure 362: CS=12.6



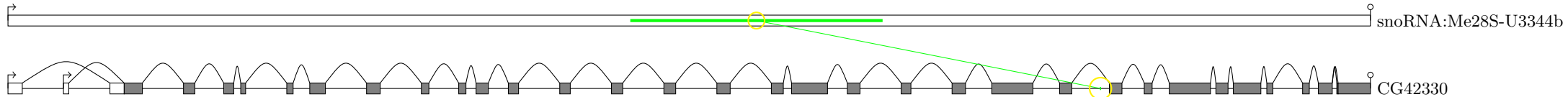
D.Mel	agtttcgc	atcttaatgatgactaca--ttgtaaattcttgataggaagagtatgAAACatAATGagTACTaaaacaaccaagctgacaaa	acaga----	ata-----
D.Sim	gatttcgc	atcttcatgatgactaca--ttgtaaattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	acaca----	ata-----
D.Sec	gatttcgc	atcttcatgatgactaca--ttgtaaattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	acaca----	ata-----
D.Ere	attttcgc	atcttcatgatgactaca--ttgtaaattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	g-aca----	ata-----
D.Gri	agtttcgc	ac--tggatgatgaatacaatttgatattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	-----	atg-----
D.Per	cattcccc	ccttcaatgatgactat---ttgtaaattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	atcca----	ata-----
D.Pse	cgtccccc	ccttcaatgatgactat---ttgtaaattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	atcca----	ata-----
D.Vir	catttcgc	ac--tggatgatgaatacaatttgatattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	gtgcatctgcata	-----
D.Wil	aatggaca	atataaatgatgaatacaatttgatattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	tttactaagattgtt	gtttcacaatcttaag
D.Yak	attttcgc	atcttcatgatgactaca--ttgtaaattcttgataggaagagtatGAAACatAATGagTACTaaaacaaccaagctgacaaa	acaca----	gta-----
	*	***** ** **** *****	* *	**** *

id=68870 gene=FBgn0086048 name=snoRNA:Me28S-U3344b segment=chrX_20921925_20922005_-1 type=EN

D.Mel	gcaaggcg	gtaagttaactc...89...tccgtgcgacaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...525...cctttccaccag	atggcaaa
D.Sim	gcaaggcg	gtaagttacctc...68...tccctgcgacaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...516...cctttccaccag	atggcaaa
D.Sec	gcaaggcg	gtaagttacctc...68...tccctgcgacaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...510...cctttccaccag	atggcaaa
D.Ere	gcaaggcg	gtaagttaaccg...74...tccctgcgacaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...509...tctccactccag	atggcaaa
D.Gri	gcaaggcg	gtaagtaactgt...161...gcggttaccgaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...561...catccttcacag	atggcaaa
D.Per	gcaaggcg	gtaagtaacacg...222...gcggttaccgaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...325...cacttttcgcag	acggaaaa
D.Pse	gcaaggcg	gtaagtaacacg...221...gcggttaccgaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...325...cacttttcgcag	acggaaaa
D.Vir	gcaaggcg	gtaagtaactgt...136...gcggttaccgaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...583...cttcttttcag	atggtaaa
D.Wil	gcaaggcg	gtaagtaacgaa...205...gcggttaccgaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...364...tctatttcacag	atggcaaa
D.Yak	gcaaggcg	gtaagttaaccg...117...tccgcgacaagccaacaaAGTGCATTGTTTgtttcagttattgcctcac-...510...ttttgtcccag	atggcaaa
	*****	***** * * ***** * * ***** *	*** * ** **

id=6557 gene=FBgn0259141 name=CG42256 segment=chr3L_7175788_7176477_-1 type=IN

Figure 363: CS=10



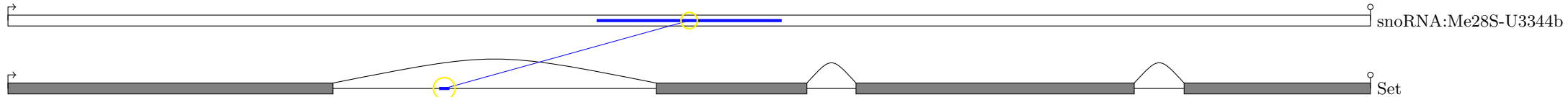
D.Me1	agtttcgc	atcttaatgatgactaca--ttgtaaattc	TTGATA	GGAAGag	TATGA	aacataatgagtactaaaacaaccaagctgacaaa	acaga-----ata-----
D.Sim	gatttcgc	atcttcatgatgactaca--ttgtaaattc	TTGATA	GGAAGag	TATGA	aacataatgagtactaaaacaaccaagctgacaaa	acaca-----ata-----
D.Sec	gatttcgc	atcttcatgatgactaca--ttgtaaattc	TTGATA	GGAAGag	TATGA	aacataatgagtactaaaacaaccaagctgacaaa	acaca-----ata-----
D.Ere	attttcgc	atctttatgatgactaca--ttgtaaattc	TTGATA	GGAAGag	TATGA	aacataatgagtactaaaacaaccaagctgacaaa	g-aca-----atat-----
D.Gri	agtttcgc	a--ctggtgatgaatacaatttgtatattc	TGATA	GGAAGag	TATGAAAC	ataatgagtactaacaataattactg--aat	g-----
D.Moj	gatttcgc	a--ctgatgatgaatacaatttgtatattc	TTGATA	GGAAGag	TATGA	aacataatgagtactaacaataattactg--aat	gtgcg--gaatc-----
D.Vir	catttcgc	a--ctggtgatgaatacaatttgtaaattc	TTGATA	GGAAGag	TATGAA	acataatgagtactaacaataattactg--aat	gtgcatctgcata-----
D.Wil	aatggaca	atataaatgatgaatactatgatga--attc	TTGATA	GGAAGag	GTATGAA	acataatgagtactaacaataattactg--aat	tttactaagattgttgttcacaatcttaag
D.Yak	attttcgc	atctttatgatgactaca--ttgtaaattc	TTGATA	GGAAGag	TATGAA	aacataatgagtactaaaacaaccaagctgacaaa	acaca-----gta-----
	*	*	*****	***	**	*****	* * * * *

id=68870 gene=FBgn0086048 name=snoRNA:Me28S-U3344b segment=chrX_20921925_20922005_-1 type=EN

D.Me1	gctgtacg	gtaagttcgct...302...	attagcccacttcatggtcc---	TCATATTTCCa	ATCAG	tgctaattgttctcgtctctccttctcttc-----	:::::cctgctgactgcctcggatacacgtgctcag	aaaccgat
D.Sim	gctgtacg	gtaagttcgct...315...	attagcccacttcatggtcc---	TCATATTTCCa	ATCAG	cgctaattgttctcgtctctcctgctccttctctaccg:::::	cctgctgactgcctcggatacacgtgctcag	aaaccgat
D.Sec	gctgtacg	gtaagttcgct...319...	attagcccacttcatggtcc---	TCATATTTCCa	ATCAG	tgctaattgttctcgtctctccttctctcttctcgg:::::	cctgctgactgcctcggatacacgtgctcag	aaaccgat
D.Ere	gctgtacg	gtaagttcgct...366...	attagcccacttcatggtcc---	TCATATTTCCa	ATCAG	cgctaattgttcttctcctccttctctcg-----	ccg:::::-----tgactgcttggatgacgtgctcag	aaaccgat
D.Gri	gctctacg	gtaagttcgtaa...679...	gtccatttaattagcagacaGTTT	TCATATTTCCa	ATCAG	tgctaattgttctcgtctctccttctcttcttctt-----	:::::attttta-----cttgtgctgta-----	cag
D.Moj	gctttacg	gtaagttcgtaa...844...	gcttgcagctcgcgctcg---	TCATATTTCCa	ATCAG	tgctaattgttctcgttcttcttcttcttcttctt-----	:::::-----	cag
D.Vir	gctttacg	gtaagttcgtaa...1324...	agcgcctcgttgcagcatc---	TCATATTTCCa	ATCAG	cgctaattgttcttcttcttcttcttcttctt-----	tt-----	ccgca-----
D.Wil	gctttatg	gtaagttcgctg...1070...	attagccttctgtgtgggctc---	TTCATATTTCCa	ATCAG	tgctaattgttcttcttcttcttcttcttcttctt-----	:::::aactcaatcccccttctacctca---	ctcag
D.Yak	gctgtacg	gtaagttcgctg...359...	attagcccacttcatggtcc---	TCATATTTCCa	ATCAG	tgctaattgttctcgtctctccttctctcgc-----	ccg:::::cctggtgactgcctcggatacacgtgctcag	aaaccgat
	***	** *	*****	*****	*****	* * * * *	***	** * *

id=117052 gene=FBgn0259232 name=CG42330 segment=chr3L_8270074_8270530.1 type=IN

Figure 364: CS=10.35



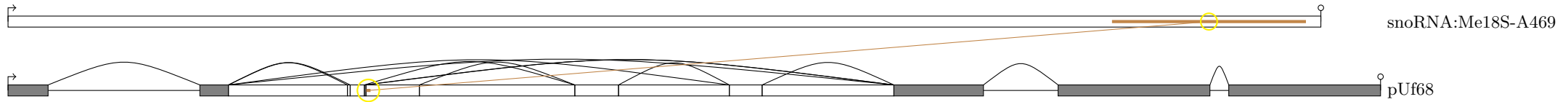
D.Mel	agtttcgc	atcttaatgatgactacattgt--	AAATTCTTGATAGGAAGA	gtatgaaacataatgagtactaaaacaaccaagctgacaaa	acaga-----ata-----
D.Sim	gatttcgc	atcttcatgatgactacattgt--	AAATTCTTGATAGGAAGA	gtatgaaacataatgagtactaaaacaaccaagctgacaaa	acaca-----ata-----
D.Sec	gatttcgc	atcttcatgatgactacattgt--	AAATTCTTGATAGGAAGA	gtatgaaacataatgagtactaaaacaaccaagctgacaaa	acaca-----ata-----
D.Ere	attttcgc	atctttatgatgactacattgt--	AAATTCTTGATAGGAAGA	gtatgaaacataatgagtactaaaacaaccaagctgacaaa	g-aca-----atat-----
D.Gri	agtttcgc	actgg--tgatgaatacaatttgtata	TTCTTGATAGGAAG	gtatgaaacataatgagtactaacaataattactg--aat	g-----
D.Moj	gatttcgc	actga--tgatgaatacaatttgtata	TTCTTGATAGGAAG	gtatgaaacataatgagtactaacaataattactg--aat	gtgcg--gaatc-----
D.Vir	catttcgc	actgg--tgatgaatacaatttgtata	TTCTTGATAGGAAG	gtatgaaacataatgagtactaacaataattactg--aat	gtgcatctgcata-----
D.Wil	aatggaca	atataaatgatgaatactat-	ATGTaaTTCTTGATAGGAAG	GTatgaaacataatgagtactacaaatc--agctgattac	tttactaagattgtttcacaatcttaatg
D.Yak	attttcgc	atctttatgatgactacattgt--	AAATTCTTGATAGGAAGA	gtatgaaacataatgagtactaaaacaaccaagctgacaaa	acaca-----gta-----
	*	*	***** ** *	*****	* * ** *

id=68870 gene=FBgn0086048 name=snoRNA:Me28S-U3344b segment=chrX_20921925_20922005_-1 type=EN

D.Mel	tgacctcg	gtgagtacttcg...93...	ctgc-acacatgtacaagaaa-	TTTTCTCTATtCGAGGcATTT	-----ttc--ttgttcatctttgggc...	230...ccatatttcag	tttatcaa
D.Sim	tgacctcg	gtgagtacttcg...93...	ctgc-acacatgtacaagaaa-	TTTTCTCTATtCGAGGcATTT	-----ttc--ttgttcatctttgggc...	231...ccatacttcag	tttatcaa
D.Sec	tgacctcg	gtgagtacttcg...93...	ctgc-acacatgtacaagaaa-	TTTTCTCTATtCGAGGcATTT	-----tct--ttgttcatctttgggc...	230...ccatacttcag	tttatcaa
D.Ere	tgacctcg	gtgagtatttcg...106...	cagc-acacatgtacacgaaa-	TTTTCTCTATtCGAGgAATTT	-----ttc--ttgttcatctttgggc...	241...ccatccttcag	ttcatcaa
D.Gri	tgactgcc	gtaagtattata...179...	tact-acatgtgcaagaaaaa-	TTTTCTCTATtCGAGGA	----ac-tttgtcgtttgttctttt-----	351...tccatttttag	ttcatcaa
D.Moj	ttacttct	gtaagtattata...161...	tact-acatgtgcaagaaaaa-	TTTTCTCTATtCGAGGA	----ac-ttttttcgtttgttctttt-----	345...aattgttttag	tttatcaa
D.Vir	tgacttct	gtgagtattata...161...	tact-acatgtgcaagaaaaa-	TTTTCTCTATtCGAGGA	----ac-ttttttcgtttgttctttt-----	361...taatttttag	ttcatcaa
D.Wil	ttacatcg	gtgagtattata...131...	aattgattttgttcaagaa-	ATTTTTCTCTATtCGAGAAACAT	ttttttcc--ctgttcatctt-----	376...atatttttag	ttataaa
D.Yak	tgacctcg	gtgagtatttcg...106...	tagc-acacatgtacaagaaa-	TTTTCTCTATtCGAGgAATTT	-----ttc--ttgttcatctttgtct...	250...tcatccttcag	tttatcaa
	** *	** **	* **	** *****	* * ** ** *	* **	** ** **

id=4456 gene=FBgn0014879 name=Set segment=chr3R_11089667_11090074_1 type=IN

Figure 365: CS=14.04



```

D.Mel ---gcttttaa ttgcagtgatg...34...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagt--aa aaaaacct-
D.Sim ---gcttttaa ttgcagtgatg...34...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagtaaaa aaaaatct-
D.Sec ---gcttttaa ttgcagtgatg...34...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagt-aaa aaaaatct-
D.Ere ---gcttttac ttgcagtgatg...34...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagt--aa aagaagcc-
D.Ana catgtaaacat ttccccct----...35...acgaaaacatgaaattataa--TTTCttATTCgTCACTACCTCtgagt---t tcgttcaca
D.Gri ---tatccaaa ccactatgatg...37...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagt---a aatgttgta
D.Moj ---tatatata tccacaatgatg...37...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagt--aa aatgttat-
D.Per -atctttccttt tgcacaatg----...38...-----atgaaattataatctt-ATTCgTCACTACCTCtgagc---a caccggcta
D.Pse -atctttccttt tgcacaatg----...38...-----atgaaattataatctt-ATTCgTCACTACCTCtgagc---a caccggcta
D.Vir ---gttgctaa tata-attgccgc...67...-----tatgaaattataatctt-ATTCgTCACTACCTCtgagt---a aattagctg
D.Yak ---gcttgctac tttgcagtgatg...34...-----catgaaattataatctt-ATTCgTCACTACCTCtgagt--aa aaacttcc-
          *                ***** * *                *****

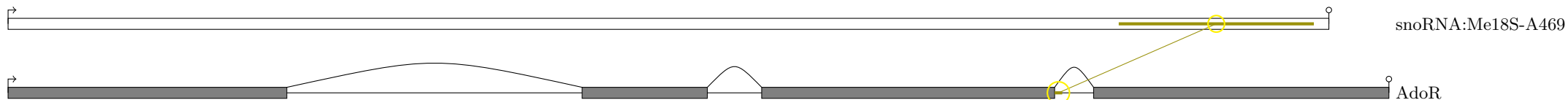
```

id=25327 gene=FBgn0086041 name=snoRNA:Me18S-A469 segment=chr2L.21143854.21143941.1 type=EN

D.Mel	gAG	GTGag	GTGAGAGT	----caa-acaatcgatttgagag---...136...gggcatcagtga	gtccaagt
D.Sim	gAG	GTGag	GTGAGAGT	----caa-acaatcgatttgagag---...140...gggcatcagtga	gtccaagt
D.Sec	gAG	GTGag	GTGAGAGT	----caa-acaatcgatttgagag---...140...gggcatcagtga	gtccaagt
D.Ere	gAG	GTGag	GTGAGAGT	----caa-acaatcgatttgagag---...139...gggcatcagtga	gtccaagt
D.Ana	gAG	GTGag	GTGAGAGT	cGAAAcgacacaaaacaatcgaaa---...142...gggattcagtga	gtcctgag
D.Gri	gAG	GTGag	GTGAGAGT	----caa-ac-aat--aacgaaaaccaa...246...ccaattcggtga	atccccgt
D.Moj	gAG	GTGag	GTGAGAGT	----caa-acaat--aaccaatcaga...242...agggtacagcca	gaatgtat
D.Per	gAG	GTGag	GTGAGAGT	----cga-aaaactatagcgaaac---...179...tcatgccctga	atgcagaa
D.Pse	gAG	GTGag	GTGAGAGT	----cga-aaaactatagcgaaac---...184...tcatgccctga	atgcagaa
D.Vir	gAG	GTGag	GTGAGAGT	----caa-acaat--aacgaaaacca...239...gcgttaacataa	gatcgaag
D.Yak	gAG	GTGag	GTGAGAGT	----caa-acaatcgatttgagag---...131...gggcatcagtga	gtccaagt
	***	*****	*****	* * * * * * * *	*

id=50399 gene=FBgn0028577 name=pUf68 segment=chr3L.1501170.1501345.-1 type=AN

Figure 366: CS=11



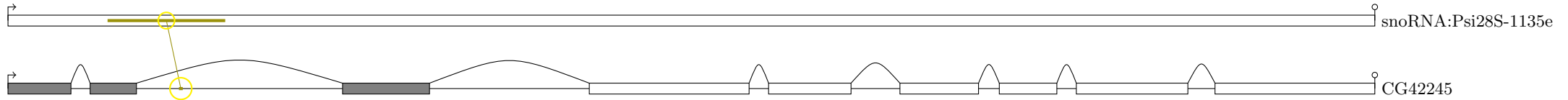
D. Mel	---	gcttttaa	ttcgcagtgatg...33...	-atatgaaattataat	tttct-TATTCGtCACTACCT	ctgagt--aa	aaaaacct-
D. Sim	---	gcttttaa	ttcgcagtgatg...33...	-atatgaaattataat	tttcc-TATTCGtCACTACCT	ctgagtaaaa	aaaaatct-
D. Sec	---	gcttttaa	ttcgcagtgatg...33...	-atatgaaattataat	tttcc-TATTCGtCACTACCT	ctgagt-aaa	aaaaatct-
D. Ere	---	gcttttac	ttcgcagtgatg...33...	-atatgaaattataat	tttct-TATTCGtCACTACCT	ctgagt--aa	aagaagcc-
D. Ana	catg	taaacat	ttccccct----	.40...aacatgaa	attataat	tttct--TATTCGtCACTACCT	ctgagt--t
D. Gri	---	tatccaaa	cccactatgatg...37...	--tatgaaattataat	tttcta-ATTTCGtCACTACCT	ctgagt--a	aatggtgta
D. Moj	---	tatatata	tccacaatgatg...36...	-atatgaaattataat	tttct-TATTCGtCACTACCT	ctgagt--aa	aatggtat-
D. Per	-atc	ttccttt	tgcacaatg----	.37...--catgaa	attataat	tttatt-TATTCGtCACTACCT	ctgagc--a
D. Pse	-atc	ttccttt	tgcacaatg----	.37...--catgaa	attataat	tttatt-TATTCGtCACTACCT	ctgagc--a
D. Yak	---	gcttgtag	tttcagtgatg...33...	-acatgaaattataat	tttct-TATTCGtCACTACCT	ctgagt--aa	aaacttcc-
			* *	***** **	*****		

id=25327 gene=FBgn0086041 name=snoRNA:Me18S-A469 segment=chr2L.21143854.21143941.1 type=EN

D. Mel	g	GGTg	AGT	GTGAGTG	cgcg	ttgtctcct--tggaact...27...	cattccctgcag	attcacc
D. Sim	g	GGTg	AGT	GTGAGTG	cgcg	ttgtctcct--tggaact...27...	cattccctgcag	attcacc
D. Sec	g	GGTg	AGT	GTGAGTG	cgcg	ttgtctcct--tggaact...27...	cattccctgcag	attcacc
D. Ere	g	GGTg	AGT	GTGAGTG	cgcg	ttgtctcct--tggaact...27...	attccctgcag	attcacc
D. Ana	g	GGTg	AGT	GTGAGTG	cgcg	actaaacct--gtggtcc...29...	attcgttctag	attccccc
D. Gri	g	GGTg	AGT	GTGAGTG	cgcg	tcgtcttct--tctat-c...42...	ttactattgtag	attcgc
D. Moj	g	GGTg	AGT	GTGAGTG	cgcg	tcgtctact--ttaatgc...30...	cccattcacag	actccc
D. Per	g	GGTg	AGT	GTGAGTG	cgcg	tcgtctcccggccaaa--...36...	tttccctgcag	actcac
D. Pse	g	GGTg	AGT	GTGAGTG	cgcg	tcgtctcccggccaaa--...36...	tttccctgcag	actcac
D. Yak	g	GGTg	AGT	GTGAGTG	cgcg	ttgtcttcc--tggaact...27...	tttccacgcag	attcacc
	*****	*****		*		** * * *		

id=4468 gene=FBgn0039747 name=AdoR segment=chr3R.25962142.25962207.-1 type=IN

Figure 367: CS=10



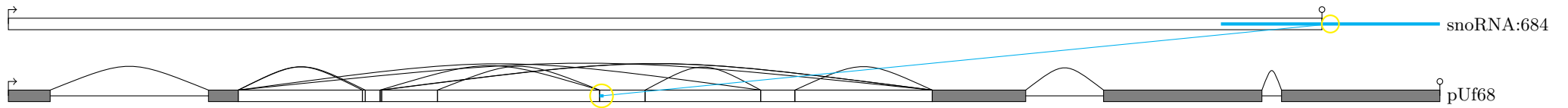
D.Mel	-----accgctg	tca----	GTCCACCT	caATGC	cagatggcttaaaatacga--..102...	aaaacaacacta	aagttaag---
D.Sim	-----accacgtt	tca----	GTCCACCT	caATGC	cagacggcttaaaatacca--..101...	aaaacaacacta	tagttaag---
D.Gri	attgaaggtcttcttctaataattcata	gta----	GTCCACCT	caATGC	cagacatctataaattcagg--..97...	aaaactacaact	aatttaaa---
D.Moj	-----gttgaa	---	AGTTAGTCCACCT	caATGC	caggcaagtattatcttcca--..100...	cacatttatctg	aatgtaat---
D.Per	-----acg	ttTTGT	caGTCCACCT	caATGC	cagctgaaaggaaaaccct--..99...	aagacaacatt-	--tgtaagccc
D.Pse	-----acc	ttTTGT	caGTCCACCT	caATGC	cagctgaaaggaaaaccct--..99...	aaaacaacatt-	--tgtaagccc
D.Vir	-----taccaatc	tta----	GTCCACCT	caATGC	cagccag--cttgtttccatg...99...	aaaaccacatt-	acgctatgc--
D.Wil	-----agtcgtag	tca----	GTCCACCT	caATGC	cagttagggttcaatctgta--..114...	aaaaccacatga	aaactatt---
D.Yak	-----cccgcc	tt-TAGT	aGTCCACCT	caATGC	cagacgggttaaaactacca--..102...	aaaacaacacta	tagataag---
			*****			*	**

id=111900 gene=FBgn0083008 name=snoRNA:Psi28S-1135e segment=chrX.17039763.17039913.-1 type=EN

D.Mel	ctccaaag	gtcgggtacatat...93...	ggcggcagttgcacgtgtgt	GCGTAGGTA	GGAT	gttgtagtttgccttt--cagt-----	...1246...	tcaatct--tccag	aattagcc
D.Sim	ctccaaag	gtcgggtacatat...91...	ggcggcagttgcacgtgtgt	GCGTAGGTA	GGAT	gttgtagtttgccttt--cagt-----	...1204...	tcaatct--tccag	aattagcc
D.Gri	agcгааag	gtatgcacacac...73...	atgtgtgcgtgtcgggtgtgt	GCGTAGGTA	GGAT	-gtagttatcgtctgtggcag-----	...1489...	tgcaatt--ttag	aagaagct
D.Moj	agcгааag	gtatgcacacac...82...	gtgaatgcgtgtcgggtgtgt	GCGTAGGTA	GGAT	TAGTT--atcgtctgtggcagtttggc...	...1601...	cttgcatt--tgcag	aagaagct
D.Per	cgccaaag	gtatgtgtaccc...57...	atggtatgggtgcgggtgtgt	GCGTAGGTA	GGATGTAG	---tttgtctgtggcagtggtta...	...1279...	tcccacc--tccag	agctggcc
D.Pse	cgccaaag	gtatgtgtaccc...57...	atggtatgggtgcgggtgtgt	GCGTAGGTA	GGATGTAG	---tttgtctgtggcagtggtta...	...1342...	tcccacc--tccag	agctggcc
D.Vir	agcгааag	gtatgcacacac...70...	gtgtatgcgtgtcgggtgtgt	GCGTAGGTA	GGAT	-gtagttatcgtctgtggcag-----	...1571...	ttcgcatt--tgcag	aagaagct
D.Wil	agcгааag	gtatgtacacac...89...	ggatgtgtatgtgtgtgtgt	GCGTAGGTA	GGAT	-gtagttatcgtctgtggcag-----	...1256...	tttgtgt--tccag	aggaagcc
D.Yak	ctccaaag	gtcgggtacatat...90...	ggcggcagttgcacgtgtgt	GCGTAGGTA	GGATGTG	tagtttgccttt--cagtttaa...	...1171...	--aatcttccag	aattagcc
	* ****	** * *	** *****			* **** * **		* **	* **

id=110118 gene=FBgn0250911 name=CG42245 segment=chr3L.2632122.2633537.1 type=IN

Figure 369: CS=12.42



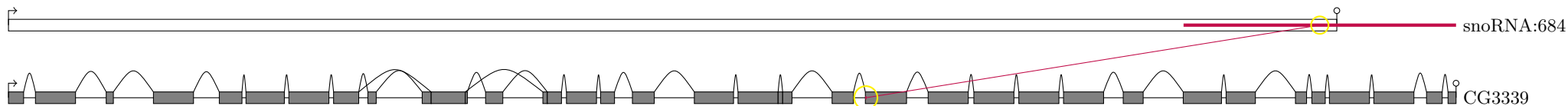
D.Mel	-ttttata	ctaaaatcggc...30...tgtccgaagattgcaagatt	ATGAGATCTGA	AACG	ccaaattt
D.Sim	-tttttta	ctaaaatcggc...30...tgtccgaagattgcaagatt	ATGAGATCTGA	AACG	ccaaatat
D.Sec	-tttttca	ctgaaatcggc...30...tgtccgaagattgcaagatt	ATGAGATCTGA	AACG	ccaaatat
D.Ere	-ttttatg	cgaaaatcggc...30...tgtccgaagattgcaagatt	ATGAGATCTGA	AACG	ccaaatat
D.Gri	-ctggcatt	atgcagcttggc...30...ggcccaaagatagcaagatt	ATGAGATCTGA	AACG	ccttgaca
D.Moj	-ttgtattt	tagcagcggc...30...ggtccggagattgtaagatt	ATGAGATCTGA	AACG	catcgtaa
D.Per	-ctttggtt	tgtaagcacggc...31...tggccggagattgtaagatt	ATGAGATCTGA	AACG	cAATAGGa
D.Pse	-ctttggtt	tgtaagcacggc...31...tggccggagattgtaagatt	ATGAGATCTGA	AACG	cAATAGGa
D.Vir	tttccattt	caacggtcggc...31...ggcccgaagattgcaagatt	ATGAGATCTGA	AACG	cATAAaaa
D.Yak	-ttttata	caaaaatcggc...30...tgtccgaagatagcaagatt	ATGAGATCTGA	AACG	ccaaatat
	*	**	**	****	* ***** *

id=44548 gene=FBgn0065058 name=snoRNA:684 segment=chr3L.5756445.5756522.-1 type=EN

D.Mel	atcagtga	gtccaagtcccg-----...741...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
D.Sim	atcagtga	gtccaagtcccg-----...749...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
D.Sec	atcagtga	gtccaagtcccg-----...753...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
D.Ere	atcagtga	gtccaagtcccg-----...773...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
D.Gri	ttcggatga	atccccgttgca-----...776...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
D.Moj	-----tac	agccagaatgtatgcgt...874...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
D.Per	cgccgtga	atgcagaatgaa-----...961...acttaaaacatattgttgc	TCTTATT	atCGTTTCAG	cGTCTTGt
D.Pse	cgccgtga	atgcagaatgaa-----...961...acttaaaacatattgttgc	TCTTATT	atCGTTTCAG	cGTCTTGt
D.Vir	taacataa	gatcgaagcgtt-----...1149...-----	aaaacatattgttgctctta	TATCGTTTCAG	cGTCTTGt
D.Yak	atcagtga	gtccaagtcccg-----...814...-----	catattgttgctcttattat	CGTTTCAG	cGTCTTGt
	*	*		*****	*****

id=50400 gene=FBgn0028577 name=pUf68 segment=chr3L.1500389.1501169.-1 type=AN VIEW

Figure 371: CS=10.8



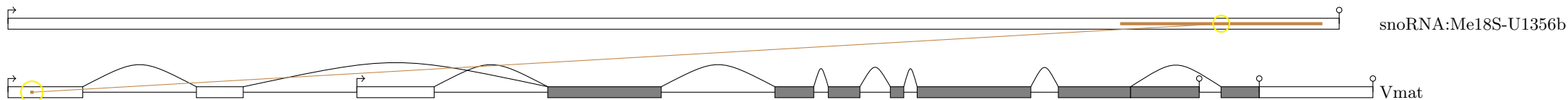
D.Mel	-ttttata	ctaaaatg	cggc...28...	-gttgtccgaagattgcaaga	TTATGag	ATCTGa	GAACG	ccaaattt	
D.Sim	-tttttta	ctaaaatg	cggc...28...	-gttgtccgaagattgcaaga	TTATGag	ATCTGa	GAACG	ccaaatat	
D.Sec	-tttttca	ctgaaatg	cggc...28...	-gttgtccgaagattgcaaga	TTATGag	ATCTGa	GAACG	ccaaatat	
D.Ere	-ttttatg	cgaaaatc	cggc...28...	-gttgtccgaagattgcaaga	TTATGag	ATCTGa	GAACG	ccaaatat	
D.Gri	-ctggcatt	atgcagctt	ggc...28...	-ctggcccaaagatagcaaga	TTATGag	ATCTGa	GAACG	ccttgaca	
D.Moj	-ttgtattt	tagcagc	cggc...28...	-ctggtccggagattgtaaga	TTATGag	ATCTGa	GAACG	catcgtaa	
D.Per	-ctttggtt	tgtaagc	acggc...29...	gctgg-c	ccggagattgtaaga	TTATGag	ATCTGa	GAACG	cAATAGGa
D.Pse	-ctttggtt	tgtaagc	acggc...29...	gctgg-c	ccggagattgtaaga	TTATGag	ATCTGa	GAACG	caatagga
D.Vir	tttcattt	caacggtc	tcgg-...29...	-ctggcccaagattgcaaga	TTATGag	ATCTGa	GAACG	cataaaaa	
D.Yak	-ttttata	caaaaatc	cggc...28...	-gttgtccgaagatagcaaga	TTATGag	ATCTGa	GAACG	ccaaatat	
	*	**		* * * *	*****			*	

id=44548 gene=FBgn0065058 name=snoRNA:684 segment=chr3L.5756445.5756522.-1 type=EN

D.Mel	cgataaag	gtacgccgccc	g...107...	-ctgct-ccttctcctcttctct	-----	TGTTT	aCAG	ATgCATAa
D.Sim	cgataaag	gtacgccgccc	g...105...	-ctgct-ccttctcctcttctct	-----	TGTTT	aCAG	ATgCATAa
D.Sec	cgataaag	gtacgccgccc	g...105...	-ctgct-ccttctcctcttctct	-----	TGTTT	aCAG	ATgCATAa
D.Ere	cgataaag	gtacgccgtcc	g...106...	-ctgct-ccttctcctcttctct	-----	TGTTT	aCAG	ATgCATAa
D.Gri	cgataaag	gtgcgaccacaa	...181...	-----	tttctcctgctacggctac	TGTTT	aCAG	ATgCATAa
D.Moj	cgataaag	gtgcgaccgcaa	...142...	gctgct-gttcctcatgctac	-----	TGTTT	aCAG	ATgCATAa
D.Per	cgataaag	gtactgggccc	ac...173...	gttgt- tttgcggccactgcc	TCTGT	TGTTT	aCAG	ATgCATAa
D.Pse	cgataaag	gtactgggccc	ac...180...	-----	tggccactgcctcggttc	TGTTT	aCAG	ATgCATAa
D.Vir	cgataaag	gtgcgaccgcaa	...179...	-ctgctggttgctgctgctgc	-----	TGTTT	aCAG	ATgCATAa
D.Yak	cgataaag	gtacgccgccc	g...138...	-tacca-tctcctcctgctctct	-----	TGTTT	aCAG	ATgCATAa
	*****	** *	*		*	*	*****	*****

id=129641 gene=FBgn0039510 name=CG3339 segment=chr3R.23134867.23135014.-1 type=IN

Figure 372: CS=12.6



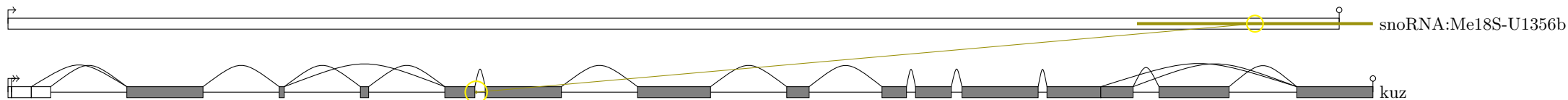
D. Mel	ttcttact	ccttaattgatg...26...--ttatggtgaaatccttttaa	CATGCATCACCAT	-----	ctgaatca	agtacatt
D. Sim	tacttaca	ccttaattgatg...26...--ttatggtgaaatccttttaa	CATGCATCACCAT	-----	ctgaatat	aatcatt
D. Sec	tactcact	ccttacttaatt...30...--ttatggtgaaatccttttaa	CATGCATCACCAT	-----	ctgaatat	aatcatt
D. Ere	tttgact	tcttaattgatg...26...--caatggtgaaatccttttaa	CATGCATCACCAT	-----	ctgaattt	aaaacatt
D. Ana	aaaaactg	cccaaatgatg...26...--ttatggtgaaatccttttaa	CATGCATCACCAT	-----	ctgaatat	taa--att
D. Per	caagtatt	cccataatgatg...26...--ttatggtgaaatcctattaa	CATGCATCACCAT	-----	ctgatata	atcagcca
D. Pse	caagtatt	cccataatgatg...26...--ttatggtgaaatcctattaa	CATGCATCACCAT	-----	ctgatata	attagcca
D. Vir	agctaatt	tcgtttctcctg...27...aattatggtgaaatcatttt	AACATGCATCACCAT	-----	ctgatcct	tacacata
D. Wil	ttcttatc	tatggcaaac...35...-attatggtgaaatcattttt	AGCATGCATCACCAT	ctGATT	gagattgccaagaac	att----
D. Yak	tacttact	ccttaattgatg...26...--tgatggtgaaatccttttaa	CATGCATCACCAT	-----	ctgaacat	ataagatt
		*	*****	** *	*****	* *

id=120015 gene=FBgn0082948 name=snoRNA:Me18S-U1356b segment=chr3L_20447346_20447424.1 type=EN

D. Mel	tcctggac	gc--agtcgttcgc...58...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---cccgtttcccacgctcgcag---...191...agatttaagggt	gtaagttt	
D. Sim	tcctggac	gc--agtcgtccgc...61...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---cccgtttcccacgctcgcag---...192...agatttaagggt	gtaagttt	
D. Sec	tcctggac	gc--agtcgtcccgc...61...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---cccgtttcccacgctcgcag---...192...agatttaagggt	gtaagttt	
D. Ere	tcctgggc	gc--agtcgtccgc...48...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---cccgtttcccacgctcgcag---...190...agatttcagggt	gtaagttg	
D. Ana	tcctgggc	gc--agtcggtagc...70...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---ccgattcccactctcgcagt---...212...agagaaaagggt	gtaagttt	
D. Per	tcctgaac	gc--agtcgttccc...54...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---ctagatttccacgtttccag---...209...agggaaaagggt	gtaagttc	
D. Pse	tcctgagc	gc--agtcgttccc...54...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---ctagatttccacgtttccag---...52...ttatcatttgt	gttgatt	
D. Vir	atcctgac	gc--agtcaaaggc...38...-----tcagtgcgagatgaaatctc	GTGG	TGATGga	CGTG	---gtgtccacgtttccagtgc...217...agagaaacgaat	gtaagtct	
D. Wil	cctgtggc	tcagagtcgctc...29...gcttagtcagtgcgagatga	GATC	tcGTGG	TGATGga	CGTG	---gtttccacgtttctcatt...264...aataatcagat	ccaaattc
D. Yak	tcctgggc	gc--agtcgtcccgc...48...-----tcagtgcgagatgagatctc	GTGG	TGATGga	CGTG	---cccgtttcccacgctcgcag---...186...agatttaagggt	gtaagttc	
		* * * * *	*****	*****	*****	* * * * *	*	

id=105380 gene=FBgn0260964 name=Vmat segment=chr2R_9420166_9420494_-1 type=E5

Figure 373: CS=10.8



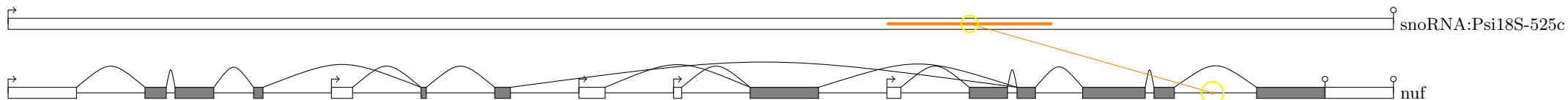
D.Me1	ttcttact	ccttaattgatg...26...ttatggtgaaatc-cttttaa	CATGCaTCACcaTCTGA	-----atca	agtacatt
D.Sim	tacttaca	ccttaattgatg...26...ttatggtgaaatc-tttttaa	CATGCaTCACcaTCTGA	-----atat	aatcatt
D.Sec	tactcact	ccttacttaatt...30...ttatggtgaaatc-cttttaa	CATGCaTCACcaTCTGA	-----atat	aatcatt
D.Ere	tttgact	tcttaattgatg...26...caatggtgaaatc-tttttaa	CATGCaTCACcaTCTGA	-----at	aaacatt
D.Ana	aaaaactg	cccaaatgatg...27...-tatggtgaaatc-tttttaa	ATGCaTCACcaTCTGA	-----at	attaaatt
D.Per	caagtatt	cccataatgatg...27...-tatggtgaaatc-ctattaac	ATGCaTCACcaTCTGAT	ataatcagcca	-----
D.Pse	caagtatt	cccataatgatg...27...-tatggtgaaatc-ctattaac	ATGCaTCACcaTCTGAT	ataatcagcca	-----
D.Vir	agctaatt	tcgtttctcctg...30...-tatggtgaaatc-tatttaac	ATGCaTCACcaTCTGAT	-----cct	tacacata
D.Wil	ttcttacc	tatgcaaacac...38...-atggtgaaatcatttttagc	ATGCaTCACcaTCTGAT	tgagattgcca	agaacatt
D.Yak	tacttact	ccttaattgatg...26...tgatggtgaaatc-tttttaa	CATGCaTCACcaTCTGA	-----acat	ataagatt
		*	*****	*** *****	

id=120015 gene=FBgn0082948 name=snoRNA:Me18S-U1356b segment=chr3L_20447346_20447424.1 type=EN

D.Me1	agTTAGAc	GTGAGTATG	gctatacaaatcatct-----gga---acgtaagtctaatgtatgtattgtatt-tgcag	ttttatga
D.Sim	agTTAGAc	GTGAGTATG	gctatacaaatcatct-----gga---acatacgttctaataatgcattgtattgtatt-tgcag	ttttatga
D.Sec	agTTAGAc	GTGAGTATG	gctatacaaatcatct-----gga---acatacgttctaataatgcattgtattgtatt-tgcag	ttttatga
D.Ere	agTTAGAc	GTGAGTATG	gctatcctaaatcagcc-----gaac---gtgatttctaattgtattgtatt-tgcag	ttttatga
D.Ana	agTTAGAc	GTGAGTAT	---tgctctgtcaagtgtatggtact---aatatttaactaattcctgtattaactt-gtttttaattccag	ttttatga
D.Per	aGTTAGAc	GTGAGTAT	---atccttgccatctct-----ttttaaatattttatattttatattttatattttttggtgttttag	ttttatga
D.Pse	aGTTAGAc	GTGAGTAT	---atccttgccatctct-----ttttaaacaat---cattttcatata-catatattttttggtgttttag	ttttatga
D.Vir	aGTTAGAc	GTGAGTAT	---tatcaacatatatgaattattttaaataat-----aatcgaatttaatttattt-gccag	ttttatga
D.Wil	aGTTAGAT	GTGAGTAT	attatattctttgtccca-----ttttgga---atatgtttttgaatac-----cttttcttgggat-ttcag	ttttatga
D.Yak	agTTAGAT	GTGAGTATG	gctatttaaatcaacc-----gaacgtatgtatgtatagttatagtt---ttgcattttgtatt-tgcag	ttttatga
	*****	*****	* ** *	*****

id=26456 gene=FBgn0259984 name=kuz segment=chr2L_13609988_13610055.1 type=IN

Figure 374: CS=11.8



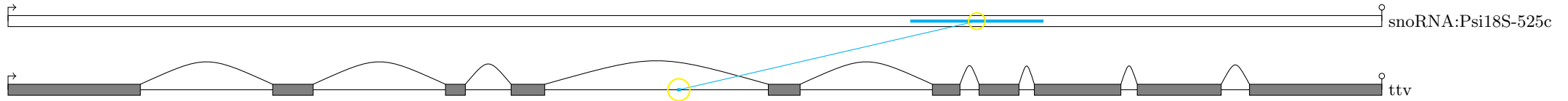
D. Mel	-----gtaatatt	c--tggagtcaaag...45...	-----aatatcaaacgaaaggacga-	ACGGcATCCTGaa	TAATCAAT	catattatagcagatgactt	gtgttcgactacaat-----	a	gtattcga-----	
D. Sim	-----tcaatatt	c--tggagtcaaag...45...	-----aatatcaactcaaaggacga-	ACGGcATCCTGaa	TAATCAAT	catattatagcagatgactt	gtgttcgatacatt-----	t	gcatgta-----	
D. Sec	ttacaatagtaata--	-----gattta...225...	-----aatatcaactgataggcga-	ACGGcATCCTGtt	TAAT	tactaatattaagacagacgactt	gtgttcgacaaactcaaaa	t	tgcttcaatagttacatatggagaa	
D. Gri	-----gttataact	ccatggagtc--...46...	-----caaaatcaatctaaatgcga-	ACGGcATCCTGtt	TAAT	ctcttataataaccagatgactt	gtgttggtgtacagt-----	t	actccaat-----	
D. Moj	-----gttatatt	ctgtggagtc--...46...	-----ccaaataaacccaaagacga-	ACGGcATCCTGtt	TAATTAAT	ATAT	tacaacagatgactt	gtgttcggtacacc-----	t	aaccaat-----
D. Per	-----tcgtatt	cc-tggagctaaag...46...	-----aataaaaactagatagacga-	ACGGcaTCCTGAATAAT		ccctcatattataacagacgactt	gtgttcggtacaat-----	a	gaccttg-----	
D. Pse	-----ttgtttc	cc-tggagccaaag...46...	-----aataaactagatagacga-	ACGGcaTCCTGAATAAT		ccctcgtattataacagacgactt	gtgttcggtacaat-----	a	ggccttta-----	
D. Vir	-----gttataact	ccgtggagttaa...46...	-----caaaactaactaaagacaa-	ACGGcATCCTGtt	TAAT	ccctcgtattataaacagatgactt	atgtttgtgtacagt-----	t	gcttcaat-----	
D. Wil	gaataactgttatac-	-----ggagc...44...	atgctcggaaatgaacttaa	GATCCga	ACGGcATCCTGtt	TAAT	ccttcatattataaacagatgactt	atgtttgtgtacaat-----	c	ccctaaaa-----
D. Yak	-----taattcc	tc-gggagacaaaag...249...	aagctccaacataaacagat-	AGTCga	ACGGcATCCTGGATAAT		cctcatattatagcagatgactt	gtgttcgactacaat-----	a	tattaaa-----
	*	**	* *	*****	***	* ****	*** *****	***	***	

id=120713 gene=FBgn0083036 name=snoRNA:Psi18S-525c segment=chr2L_20418834_20418967_1 type=EN

D. Mel	aagcccag	gtctgtatttga...227...	gtgtatttaaattgaca---ttt-----	ATTGt	ATTACAGGATt	CTGT	ggattcagccacattagcat-----	...290...	tatgttttgcag	ctacaaca	
D. Sim	aagcccag	gtgtgtatttga...225...	gtgtatttaaattgaca---ttt-----	ATTGt	ATTACAGGATt	CTGT	ggattcagccacattagcat-----	...282...	tatgttttgcag	cttcaaca	
D. Sec	aagcccag	gtgtgtatttga...230...	-----ttaaattgaca---tttattgt-----		ATTACAGGATt	CTGT	ggattcagccacattagcat-----	...282...	tatgttttgcag	cttcaaca	
D. Gri	aggctcag	gtgtgttggca...208...	-----atattatattgta---tttattgt-----		ATTACAGGATt	CTGT	ggattcagccacattagcat-----	...349...	acaatttacag	ctgcaaca	
D. Moj	aagctcag	gtttgtaggccg...203...	-----atttttatata---tataaat	GTAT	ttATTGt	ATTACAGGATt	CTGT	ggattcagccacattagcat-----	...342...	aatcaattccag	ctgcaaca
D. Per	aagcgcag	gtgtgtatccag...267...	-----atattatattgaaa---tttattgt-----		TATTACAGGA	gtCTGT	ggattcagccacattagcat-----	...266...	tttgtgttacag	ctgcaaca	
D. Pse	aagcgcag	gtgtgtatccag...282...	-----atattatattgaaa---tttattgt-----		TATTACAGGA	gtCTGT	ggattcagccacattagcat-----	...265...	tttgtgttacag	ctgcaaca	
D. Vir	aagctcag	gtttgtaatgtc...208...	-----atattatattgta---tttattgt-----		ATTACAGGATt	CTGT	ggattcagccacattagcat-----	...400...	atcaacttacag	ctgcaaca	
D. Wil	aagctcag	gtgtgtagaact...295...	-----atattgaaaatttatattgt-----		ATTACAGGATt	CTGTGGATT	cagccacattagcatcctta...333...	tgcatattacag	ctccagca		
D. Yak	aagcccag	gtgtgtatttgg...234...	-----atttaaatgacg---tttattgt-----		TATTACAGGATt	CTGTg	GATTcagccacattagcatcctta...282...	tatgctttgcag	ctacaaca		
	** * *	** * *	*	**	*****	*****	*****	** * *	** * *		

id=43701 gene=FBgn0013718 name=nuf segment=chr3L_14224426_14225026_1 type=IN

Figure 375: CS=10.8



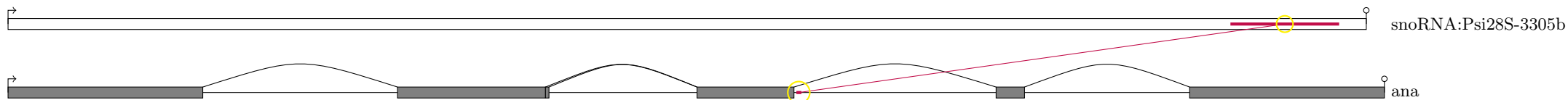
D. Mel	gtaatatt--	c--tggagtcaaag...48...	-atcaaacgaaggacgaacg	GCATCCTGAATAAT	caatcatattatagcagatgactt	gtttcgactacaat-----	gtattcga-----					
D. Sim	tcaatatt--	c--tggagtcaaag...48...	-atcaactcaaaggacgaacg	GCATCCTGAATAAT	caatcatattatagcagatgactt	gtttcgatacatt-----	gccatgta-----					
D. Sec	-ttacaatag	taatagattta---...227...	tatcaacttgataggcgaacg	GGCATCCTGT	TTAAT	ACTA	atattaagacagacgactt	gtttcgtgcacaacttcaaaa	tgcttcaatagttacatatatggagaa			
D. Gri	gttatact--	ccatggagtcaa--...49...	-aatcaatctaaatgcaacg	GCATCCTGT	TTAAT	ctcttatattataccagatgactt	gtttgggtgtacagt-----	actccaat-----				
D. Moj	gttatatt--	ctgtggagtcaa--...49...	-aataaacccaagacgaacg	GCATCCTGT	TTAAT	AATTATA	ttacaacagatgactt	gtttcgtgtacacc-----	aaccaat-----			
D. Per	----tcgtat	tcctggagctaaag...49...	-aaaaactagatagacgaacg	GCATCCTGAATAAT	ccctcatattataacagacgactt	gtttcgtgtacaat-----	gacctttg-----					
D. Pse	----ttgttt	ccctggagccaaag...49...	-aataactagatagacgaacg	GCATCCTGAATAAT	ccctcgtattataacagacgactt	gtttcgtgtacaat-----	ggccttta-----					
D. Vir	gttatact--	ccgtggagttaa--...49...	-aactaactaaagacaaacg	GCATCCTGT	TTAAT	ccctcgtattataacagatgactt	gtttgtgtacagt-----	gcttcaat-----				
D. Yak	----taattc	ctcggagacaaaag...258...	-cataaacagatagtcaacg	GCATCCTGGATAAT	c-ctcatattatagcagatgactt	gtttcgactacaat-----	ttattaaa-----					
		*	** * *	*	*****	***	* ****	****	****	****	*	***

id=120713 gene=FBgn0083036 name=snoRNA:Psi18S-525c segment=chr2L_20418834_20418967_1 type=EN

D. Mel	tgctgcag	gtgagctggagc...1181...	-----ggcatgtttgcctttgtagt	TTATTG	CAGGaaATGC	aattaa-ttaagttaacttga...	306...	-acatatatag	gtaccgga
D. Sim	tgctgcag	gtgagccggagc...1192...	-----ggcatgtttgcctttgtagt	TTATTG	CAGGaaATGC	aattaa-ttaagttaacttga...	321...	-acatatatag	gtgccgga
D. Sec	tgctgcag	gtgagccggagc...1174...	---cattggcatgtttgcctttg	TAGT	TTATTGGCAGGaaATGCT	attaa-ttaagtaacttga...	315...	-acatatatag	gtgccgga
D. Gri	tactgcag	gtgagttgacca...969...	-----catgtttgcctttgtagt	TTATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	378...	ctcttat-tgcag	gtgccgga	
D. Moj	tgctccag	gtgagttggcca...2002...	atcgctggcatgtttgccttt	TGTAGT	TTATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	310...	ctctgcttgcag	gtaccgga
D. Per	tgctgcag	gtgagcgaacg...934...	-----ggcatgtttgcctttgtagt	TTATTG	CAGGaaATGC	aattaattacgttaacttga...	264...	tctcta-ttacag	gtaccgga
D. Pse	tgctgcag	gtgagcgaacg...911...	-----ggcatgtttgcctttgtagt	TTATTG	CAGGaaATGC	aattaattacgttaacttga...	266...	tctcta-ttacag	gtaccgga
D. Vir	tgctgcag	gtgagttgtcca...1209...	-----catgtttgcctttgtagt	TTATTGGCAGGaaATGC	aattaa-ttaagttaacttga...	337...	actcat-tgcag	gtgccgga	
D. Yak	tgctgcag	gtgagccggagc...1236...	-----ggcatgtttgcctttgtagt	TTATTG	CAGGaaATGC	aattaa-ttaagttaacttga...	301...	tcgcatatctag	gtgccgga
		* * * *	*****	*****	*****	*****	*** * *	*****	* * *

id=12822 gene=FBgn0020245 name=ttv segment=chr2R_10450891_10452458_1 type=IN

Figure 376: CS=10.62



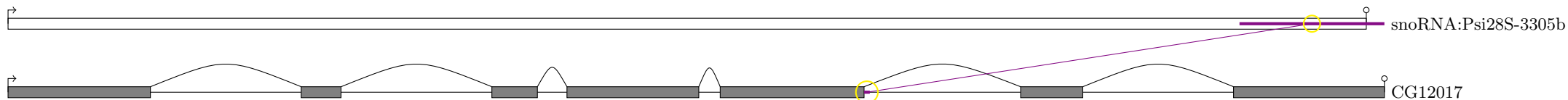
D. Mel	-----cgtggacg	tcacagtactga...94...-atat-tataaatca--attctgt	GTAACACGGaGCCT	cgttacaa-----	.....
D. Sim	-----cgtggacg	tcacagtactga...94...-atat-tataaatca--attctgt	GTAACACGGaGCCT	cgttacaa-----	.....
D. Sec	-----cgtggacg	tcacagtactga...94...-atgt-tataaatca--attctgt	GTAACACGGaGCCT	cgttacaa-----	.....
D. Ere	-----cgtgggca	tcacagtactga...94...-atat-taaaaacca--gttctgt	GTAACACGGaGCCT	cgttacaa-----	.....
D. Ana	-----ttgaggct	ccacagcgtga...95...tagatctgtt--cca--attcagt	GTAACACGGaGCCT	cgttacaata-----	.....
D. Gri	-----gctgctct	acacagtactga...94...--gt-taaatgccctattcagc	GTAACACGGaGCCT	cgttacaa-----	.....
D. Moj	ttaaaatgtaagct	ttata-----...390...-cat-taaaatcct-agttcagc	GTAACACGGaGCCT	cgttacatttcttttaagtttaactttatttcccggcgtt	.....:tggttttgttattttcagtgcaaaaacagcatcagctca
D. Per	-----ttttgacct	gcacagtactg...94...taaat-caaacacta--ttcagt	GTAACACGGaGCCT	cgttacactc-----	.....
D. Wil	-----tgtttact	gtacagtactga...101...-gatttattgcca--attcagt	GTAACACGGaGCCT	cgttacat-----	.....
D. Yak	-----cgtggaca	tcacagtactga...94...-atat-tataaacca--attctgt	GTAACACGGaGCCT	cgttacaa-----	.....
	*	* * *	*** * *****		

id=92353 gene=FBgn0082975 name=snoRNA:Psi28S-3305b segment=chr3R.24428062.24428211.1 type=EN

D. Mel	ccaggcAG	GTaaGCGTGTGT	ttgccatgt-tcaactaaccg...739...cgttattt--cag	acattgct
D. Sim	ccaggcAG	GTaaGCGTGTGT	ttgccatgt-ccaactaaccg...742...cgttattt--cag	acattgct
D. Sec	ccaggcAG	GTaaGCGTGTGT	ttgccatgt-ccaactaaccg...743...cgttattt--cag	acattgct
D. Ere	ccaggcAG	GTaaGCGTGTGT	ttgccatgt-ccaactaaccg...722...cgttattt--cag	acattgct
D. Ana	tcaggcAG	GTaaGCGTGTGT	ttgcccaagc-ttaactaactg...823...-tttatttcacag	agattgca
D. Gri	tcaggcAG	GTaaGCGTGTGT	tagccaagccttaactaact-...979...tgtgtctta--cag	atattgca
D. Moj	tcaggcAG	GTaaGCGTGTGT	tagccaagccttaactaact-...1108...tgtacttta--cag	atattgca
D. Per	tcaggcAG	GTaaGCGTGTGT	ttgcccaagc-ctaactaactc...848...tgtatctt--cag	accctgct
D. Wil	tcaggcAG	GTaaGCGTGTGT	ttgcccaagc-ttaactaacac...915...atatttta--tag	atcctgca
D. Yak	ccaggcAG	GTaaGCGTGTGT	ttgccatgt-ccaactaaccg...700...cgttcattg--cag	acattgct
	*****	*****	*****	*****

id=73851 gene=FBgn0011746 name=ana segment=chr2R.4962594.4963377.1 type=IN

Figure 377: CS=11.5



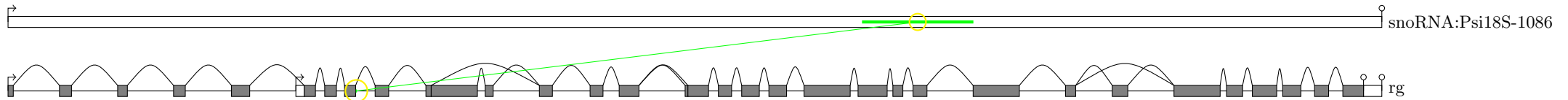
D.Mel	-----cgtggacg	tcacagtactga...96..attataaatcaat--tctgtgt	-----AACACGCAGCCTCGTTA	-----	caactgcaaatca
D.Sim	-----cgtggacg	tcacagtactga...96..attataaatcaat--tctgtgt	-----AACACGCAGCCTCGTTA	-----	caactgcaaatca
D.Sec	-----cgtggacg	tcacagttctga...96..gttataaatcaat--tctgtgt	-----AACACGCAGCCTC	-----	gttacaactgcaaatga
D.Ere	-----cgtgggca	tcacagtactga...96..attaanaaccagt--tctgtgt	-----AACACGCAGCCTCGTTA	-----	caactgcacatca
D.Ana	-----ttgaggct	ccacagcgtga...91..aatgtagatctgt--tccaatt	CAGTGtAACACGCAGCCTCGTTA	-----	caataccatctat
D.Gri	-----gctgctct	acacagtactga...90..--tgtagttaaatgccctatt	CAGCGtAACACGCAGCCTCGTTA	-----	caaacgtaaatca
D.Moj	ttaaaattgtaagct	ttata-----..386..aattcattaaat--cctagtt	CAGCGtAACACGCAGCCTCGTTA	catttcttttaagttaactttattttccggcggttttatt	tggttttgtttattttcagtgcataaacagcatcagctca
D.Per	-----ttttgacct	gcacagtactg-...90..aatgtaaatcaaa--cactatt	CAGTGtAACACGCAGCCTCGTT	-----	acactcatataaatcg
D.Wil	-----tgtttact	gtacagtactga...97..gtaagatttatt--gcccaatt	CAGTGtAACACGCAGCCTCGTTA	-----	catttaagaatcc
D.Yak	-----cgtggaca	tcacagtactga...96..attataaaccaat--tctgtgt	-----AACACGCAGCCTCGTTA	-----	caactgcactcca
	*	* * * * *	*****		*

id=92353 gene=FBgn0082975 name=snoRNA:Psi28S-3305b segment=chr3R.24428062.24428211.1 type=EN

D.Mel	-tAACGgAG	GTgTGTgTGT	TGTT	tgctgcgtgtggttttacat	-----...753...aatgtatatag	ttaccgc
D.Sim	-tAACGgAG	GTgTGTgTGT	TGTT	tgctgcgtgtggttttacat	-----...773...aatgtatatag	tgaccgc
D.Sec	cg---GAG	GTgTGTgTGT	TGTT	tgctgcgtgtggtttcatg	-----...773...aatgtatatag	tgaccgc
D.Ere	-tAACGgAG	GTgTGTgTGT	TGTT	tgctgcgtgtggttttacat	-----...743...aatgatatag	tgaccgc
D.Ana	-tAACGgAG	GTgTGTgTGT	TGTTGCTG	cgtgtggtttttcatgact	...701...acaattaatag	tgaccgc
D.Gri	-tAACGgAG	GTgTGTgTGT	TGTTGCTG	cgtgtggttttttaaaacaaa	...840...cctgcttaacag	ttaccgc
D.Moj	-tAACGgAG	GTgTGTgTGT	TGTTGCTG	cgtgtggttttcaatcaatt	...969...ctgcttcacag	ttaccgc
D.Per	-aACGgaAG	GTgTGTgTGT	TGTTGCTG	cgtgtggttttaaatgact	...748...acgaacatatag	ttaccgc
D.Wil	-tAACGgAG	GTgTGTgTGT	TGTTGCTG	cgtgtggttttacaatgact	...1083...gcttcacttag	ttaccgc
D.Yak	-tAACGgAG	GTgTGTgTGT	TGTT	tgctgcgtgtggttttacat	-----...770...taattatag	tgaccgc
	**	*****	*			** * * *

id=75947 gene=FBgn0035429 name=CG12017 segment=chr3L.3288186.3288982.1 type=IN

Figure 378: CS=10



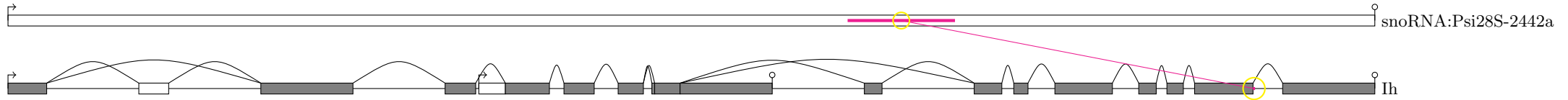
D.Mel	aagcgctt	tcc---gcacgaagt...	52...	actaagaatt-aaatgctgct---	TACT	aGCATCGTT	-aggcgacacgactt-tccatactgtggccatggtttt--	caaagtagtacaat	tcacaaaa				
D.Sec	aagcgctt	tcc---gcacgaagt...	52...	actaagaatt-aaatgctgct---	TACT	aGCATCGTT	-aggcgacacgactc-tccatactgtggccatggtttt--	caaagtagtacaat	tcactaaa				
D.Ere	aagcgctt	tcc---gcacgaagt...	52...	actaagaatt-aaatgctgct---	TACT	aGCATCGTT	-aggcgacacgactt-tccatactgtggccatggtttt--	caaagtagtacaat	tcaaacat				
D.Gri	---taat	tatatgcgcaaaagt...	52...	attaaaaatcaaagctgct---	TTACT	aGCATCGTT	-aggcgacacgactt-tccatactgtggccatggtttt--	caaagtagtacaac	ccgtttaa				
D.Moj	gtggtatt	tat---gcacaaatgt...	51...	aattaaatataactac---	TTACT	aaGCATCGTT	-aggcgacacgactt-ttcttactgtggccatggtttt--	caaagtagtacaac	ccgtttaa				
D.Per	aagataat	tat---gcacaaagt...	53...	attaacaac-aaatgctgct---	TACT	aGCATCGTT	-aggcgacacgaata-caccaactgtggccatggtttt--	caaagcagtacaaa	ttacaaa				
D.Pse	aagataat	tat---gcacaaagt...	53...	attaacaac-aaatgctgct---	TACT	aGCATCGTT	-aggcgacacgaata-caccaactgtggccatggtttt--	caaagcagtacaaa	ttacaaa				
D.Vir	gtgataac	tgt---gcacgaagg...	49...	gtgcaaagattaaataaata	CTGC	TACT	aGCATCGTT	-ggcgacacga-gc-atcttactgtggccatggtttt--	taaagtagtacaat				
D.Wil	aghtaatt	tat---aataathta...	75...	gtaaatattgtattgctgct---	TTACT	aGCATCGTT	-aggcgacacgacta-tccatactgtggccatggtttt--	caaagcagtacaaa	ttaatgta				
D.Yak	aagcgctt	tcc---gcacgaagt...	52...	actaagaatt-aaatgctgct---	TACT	aGCATCGTT	-aggcgacacgactt-tccatactgtggccatggtttt--	caaagtagtacaat	tcaatcaa				
		*		*	*	*	****	*****	*****	*****	****	****	*****

id=116314 gene=FBgn0083058 name=snoRNA:Psi18S-1086 segment=chr3L.833062.833209_-1 type=EN

D.Mel	-----caAACGAT	GTgAGTA	-----ccat---ttgtatttgatattca---	...172...	aatctttttcag	ccctttga
D.Sec	-----caAACGAT	GTgAGTA	-----cc---attccattcacttacaag---	...68...	tcttttttttag	ccctttga
D.Ere	-----caAACGAT	GTgAGTA	-----ctat---ttgtatttgatcaaca---	...202...	aatcgctttcag	ccctttga
D.Gri	-----caAACGAT	GTgAGTAG	-----cgatgagctcaactcggtta---	...57...	ctctcttttag	ccctttga
D.Moj	-----caAACGAT	GTaAGTAG	-----ag---gcgaggaaggtgaacaac---	...39...	ctctctgtgtag	ccctttga
D.Per	-----caAACGAT	GTgAGTA	-----tatc---cctataaccgtccaca---	...40...	tctgtatgacag	ccctttga
D.Pse	cgaccgaaatggcctggttt	gtctcgcacaAACGAT	GTgAGTA	-----tatc---cctatatccgtccaca---	...39...	tctgtatgacag
D.Vir	-----caAACGAT	GTgAGTAGCAG	aacc---	tttaaagcgaatcca---	...37...	ctctttctatag
D.Wil	-----caAACGAT	GTaAGTAG	-----c---	ttgatcctaatacatttctc...	...119...	aattatttacag
D.Yak	-----caAACGAT	GTgAGTA	-----cttt---ttgtatttgatcaact---	...206...	aatcgtttcag	ccctttga
		*****	** ****		**	*****

id=73575 gene=FBgn0086911 name=rg segment=chrX.5118509.5118719.1 type=IN

Figure 379: CS=12.8



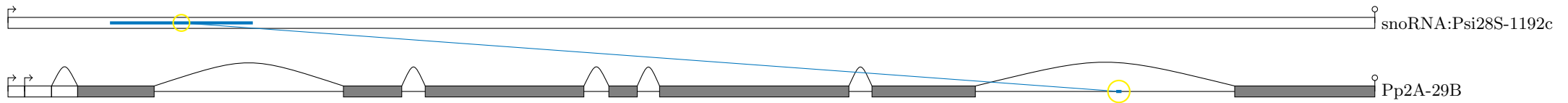
D. Mel	gtgaagtg	gctgcatatcat...44...--tatgcaataacaatcaacac--	ATTACTTGTCTTT	ggtttgtc-----	ctaaca--cta--	acgttctgaagatttcttatgtgtcaacaa-----	ct	actcttta	
D. Sim	gtgaagtg	gcagcatatcat...43...--tatgcaatagcaatagacac--	ATTACTTGTCTTT	ggtttgtc-----	ctaaca--cta--	acgttctgaagatttcttatgtgtcaacaa-----	ct	attctcta	
D. Sec	gtgaagtg	gctgcatatcat...43...--tatgcaataacaatcgacac--	ATTACTTGTCTTT	ggattgtc-----	ctaaca--cta--	acgttctgaagatttcttatgtgtcaacaa-----	ct	attctcta	
D. Ere	aactagt	gtgcatatcat...43...--tatgcaatcaatcgacac--	ATTACTTGTCTTT	ggtttggt-----	ctaata--cta--	acgttctgaagatttcttatgtgtcgacaa-----	ct	attctcta	
D. Ana	ttaagag	cctgcatattat...43...--tatgcaataagaaacgactc--	ATTACTTGTCTTT	ggactggt-----	ctaacc--cta--	acagtctggagatttcttctgtgtcaacat-----	ta	tacttta	
D. Gri	aaaccttc	gccgcacattat...45...--tgcaaatgaaacgccacat--	TTTACTTGTCTTT	aatttt-----	cgaaaaactcgatc---	ttaaagatttctaattgttgcgacat-----	at	attttct	
D. Per	gtgtgttg	gtgcatataat...38...gattatgccacatggaacgc	CACATA	TTTACTTGTCTTT	ggtttggt-----	gtagacaatcta--	acgatccgaagatttcttatgtgtcaacaa-----	ca	gcttctat
D. Pse	gtgtgttg	gtgcatataat...38...gattatgccacatggaacgc	CACATA	TTTACTTGTCTTT	ggtttggt-----	gtagacaaccta--	acgatccgaagatttcttatgtgtcaacaa-----	ca	gcttctat
D. Wil	gtttgttt	tttgcataataa...49...--tgcaaatgaaacgccacgt--	TTTACTTGTCTTT	gggttgtaaagaagcattaaaaatttactacaacctgaagatttcta	aatg	cgggcgacaccaaaaaa	a-----	a-----	
		*** ** *		*****		*	*	***** ** * **	

id=24408 gene=FBgn0082989 name=snoRNA:Psi28S-2442a segment=chr3R.1424360.1424499_-1 type=EN

D. Mel	aAAGATGA	GTAAGT	tgactggggtacaagcaatacatacatgactcttctaaca:::aatacttttgc--tatct-----gtttcag	tgacatgg
D. Sim	aAAGATGA	GTAAGT	tgactgcgggacaagcaatacatacatgaccc-----:aatacttttgc--tatcc-----gtttcag	tgacatgg
D. Sec	aAAGATGA	GTAAGT	tgactgcggtataagcaatacatacatgacccttctaaca:::aatacttttgc--tatct-----gtttcag	tgacatgg
D. Ere	aAAGATGA	GTAAGT	tgacggatggactgaacaaccta---acac---aaca:::aatacttttga--tatcc-----gtttcag	tgacatgg
D. Ana	aAAGATGA	GTAAGT	-----:aattttaatatgtgtatcc-----cttag	tgacatgg
D. Gri	aAAGATGA	GTAAG	-----:aatacatatacatatatacattgtagttag	tgacatgg
D. Per	aAAGATGA	GTAAGTGTG	-----:accattctaag-----cag	tgacatgg
D. Pse	aAAGATGA	GTAAGTGTG	-----:accattctaag-----cag	tgacatgg
D. Wil	aAAGATGA	GTAAG	-----:ttggctttaa---tttcatttcgtgttag	tgacatgg
	*****	*****		** *****

id=92449 gene=FBgn0028428 name=Ih segment=chr2R.10185719.10185879_1 type=IN

Figure 381: CS=17.64



```

D.Mel gatagcgg gg-----GTCCaaTCTAATTCTG-----catagtggttaattatgta---...84...--aaaagaaca-tta gcaaaacta
D.Sim gaaagcgg ag-----GTCCaaTCTAATTCTG-----catcgtggttaactatgta---...84...--aaaagaaca-tta ggaaactg
D.Sec gaaagcgg ag-----GTCCaaTCTAATTCTG-----catcgtggttaactatgta---...84...--aaaagaaca-tta ggaaactg
D.Ere ggaaccgg gg-----GTCCaaTCTAATTCTG-----catcatggtatattatgta---...88...--aaaagaacactta -catatga
D.Ana -----aTTTATTggGTCCagTCTAATTCTG-----catcatggtttattatgta---...89...--aaagaacactta gaatatca
D.Per -tatatgg agta--TATTCgGTCCaaTCTAATTCTG-----catcatggtttattatgta---...108...--taaatatgaata ggaagatg
D.Pse -tatatag tgta--TATTCgGTCCaaTCTAATTCTG-----catcatggtttattatgta---...108...--taaatatgaata ggaagatg
D.Vir tatctagt ag-----GTCCagTCTAATTCTG-----catcatg--tcacttgatatt...92...--gaagaacaatca ataagcat
D.Wil gttctttc ga-----GTCCaaTCTAATTCTAtcTTATgaatttaaacctaataagat---...84...gtaaatgaaca--- ataatttg
D.Yak aactagag gg-----GTCCagTCTAATTCTG-----cataatggttaattttgta---...261...--aaaggaaca-tta gcgaaata
          **** *
          *****
          ** * *
  
```

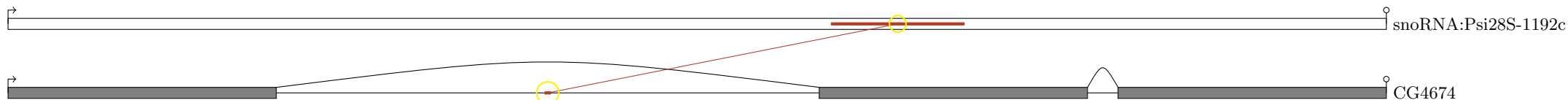
id=106326 gene=FBgn0082999 name=snoRNA:Psi28S-1192c segment=chrX.17038140.17038273.-1 type=EN

```

D.Mel agctgcag gtaagcaataaa...331...ggagccgcccacgcttgact-----CGGAATgtTAGAGGAT-----gagtagccaaccacatgacg---...274...attgtttatag cgtaatca
D.Sim agctgcag gtaagcaataaa...333...ggagccgcccacgcttgact-----CGGAATgtTAGAGGAT-----gagtagccaaccacatgacg---...275...attgtttgacg cgtaatca
D.Sec agctgcag gtaagcaataaa...333...ggagccgcccacgcttgact-----CGGAATgtTAGAGGAT-----gagtagccaaccacatgacg---...274...attgtttgacg cgtaatca
D.Ere agctgcag gtaagcattaat...375...ggagccgcccacgcttgact-----CGGAATgtTAGAGGAT-----gagtagccaaccacacagacg---...265...attgtttacag cgtaatca
D.Ana agcagcag gtaagaatcgtt...341...ggaacctcccaaagtggaaa-----TGGAATgtTAGAGGATGAGTAgagtagatgttcttcccgcgct---...297...ttttgtttacag cgtaatca
D.Per agcagcag gtaagccccacc...460...tcgagagtcgagaattgaaat-----TGGAATgtTAGAGGATGAGTAgagtagatgttcttcccgcgct---...222...gtttggttacag cgtaatca
D.Pse agcagcag gtaagccccacc...460...tcgagagtcgagaattgaaat-----TGGAATgtTAGAGGATGAGTAgagtagatgttcttcccgcgct---...223...gtttggttacag cgtaatca
D.Vir agcagctg gtaagcatagaa...298...gcagcaactgaagagtggtt-----CGGAATgtTAGAGGAT-----gagtagccaaac-cagaatgt---...294...ttttattacag cgtaatca
D.Wil agcagcag gtaagcaaccag...257...gcaactgcagccaagcagcaATAAttTGGAATgtTAGAGGAT-----gagtagtcta---caaaattcaat...1089...ttactttgacg cgtaatca
D.Yak agctgcag gtaagcattaaa...366...ggagccgcccacgcttgact-----CGGAATgtTAGAGGAT-----gagtagccaaccacatgacg---...273...attgttaacag cgtaatca
*** ** * *****
          *****
          *
          * * **
  
```

id=43941 gene=FBgn0260439 name=Pp2A-29B segment=chr2L.8369031.8369715.1 type=IN

Figure 383: CS=10.8



```

D.Mel --gatagcgg ggtccaatcta...40...ccagaacaatcacc---atccttTATTATCCttGTGC-ttgtgaca--a-tatcag-----:taaaagaaca-----tta gcaaacta-----
D.Sim --gaaagcgg aggtccaatcta...40...ccagaacaatcacc---atccttTATTATCCttGTGC-ttgtgaca--a-tatcag-----:taaaagaaca-----tta ggaaactg-----
D.Sec --gaaagcgg aggtccaatcta...40...ccagaacaatcacc---atccttTATTATCCttGTGC-ttgtgaca--a-tatcag-----:taaaagaaca-----tta ggaaactg-----
D.Ere --ggaaccgg ggtccaatcta...42...-agagcaaactcca-atccttTATTATCCttGTGCtAGTGacca--cttaactg-----:taaaagaaca-----ctta -catatga-----
D.Ana --atattttt ggtccagtccta...43...-gaacaaagtcctcaaatccttTATTATCCttGTGC-tggggaca--cttgccag-----:taaaagaaca-----ctta gaatatca-----
D.Per tatatggagt atattcggtc--...49...-aaactaaccacaa-atctttTATTATCCttGTGC-ttgtggcattatcccctg-----:tagaagaacagatatattt gtaaatatgaataggaagatg
D.Pse tatatagtgat atattcggtc--...49...-aaactaaccacaa-atctttTATTATCCttGTGC-ttgtggcattatcccctg-----:tagaagaacagatatattt gtaaatatgaataggaagatg
D.Vir -tatctag-t aggtccagtccta...46...caagagcaa--tgcttTATTATCCttGTGC-ttgtgca--acactcag-----:tagaagaaca-----atca ataagcat-----
D.Wil --gttctttc gagtccaatcta...46...accatagcaatttc---ttctttTATTATCCttGTGCtttgtgtcct-ttcatctg-----:taaagaaca-----a ataatttg-----
D.Yak --aactagag ggtccagtccta...40...ccagattaatccc---atccttTATTATCCttGTGC-ttgtgata--a-tatcaaatccaatgacacagagaac:::taaagaaca-----tta gcgaaata-----
* * ** * ** * ***** * ** * *****

```

id=106326 gene=FBgn0082999 name=snoRNA:Psi28S-1192c segment=chrX.17038140.17038273.-1 type=EN

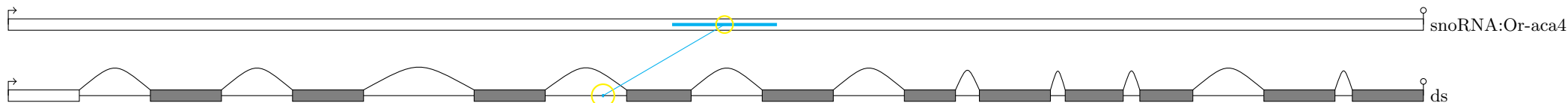
```

D.Mel aatacgcg gtaagtgcagtc--...3117...----gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttggtcaggca...1795...ctttaatttcag ccatcaag
D.Sim aatacgcg gtaagtgcagtc--...3107...----gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttggtcaggca...1805...ttttcttttcag ccatcaag
D.Sec aatacgcg gtaagtgcagtc--...3089...----gccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttggtcaggca...1823...ttttcttttcag ccatcaag
D.Ere aatacgcg gtaagtgcagtc--...3082...gccccaccagcgcctcaacattGCGCGGATcAATGtttaaggccttggtcaggca...1826...ctttcttttcag ccatcaag
D.Ana aatacgcg gtgagtaaggt--...3113...----gccactagaccttcaacattGCGCGGATcAATGttcaggccttggtcaggca...1799...tttttttttcag ctattaaa
D.Per gattcgcg gtaagtcatagt--...2595...----gccaccaagccctcaacattGCGCGGATcAATGttcaatgccttattcaggca...2317...tttttttttcag ccattaaa
D.Pse gattcgcg gtaagtcatagt--...2594...----gccaccaagccctcaacattGCGCGGATcAATGttcaatgccttattcaggca...2318...tttttttttcag ccattaaa
D.Vir aataagag gtaaat--ttgtaa...2920...----gccaccaaacctcgacattGCGCGGATcAATGtttaggccttggtcaggca...1992...ttttccctacag caataaaa
D.Wil aatacgcg gtaagt--tggtta...3246...----gccactaaacctcaacattGCGCGGATcAATGttcaatgccttattcaggca...1666...ttttcttttcag ccataaaa
D.Yak aatacgcg gtaagtgcagtc--...3106...----gccaccagcgcctcaacattGCGCGGATcAATGtttaatgccttggtcaggca...1806...ctttcttttcag caatcaag
** * * ** * * ** * ***** * ** * ***** ** * ** * ** * **

```

id=90705 gene=FBgn0037856 name=CG4674 segment=chr3R.6711810.6719451.1 type=IN

Figure 384: CS=10



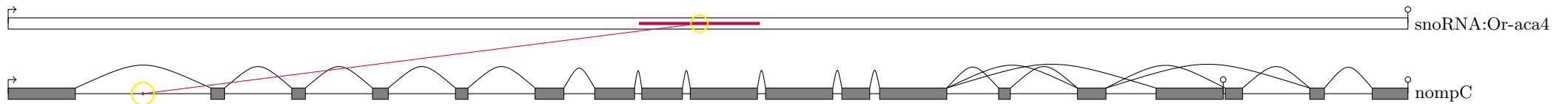
D.Mel	atgacatt	tttccttctgca...36...	gctctaataccgctgaaggta	GATCAAAT	GTTCA	tcctccattgccgttgacac	----	..48..	gtgaatacactt	tgtttttc---
D.Sim	ataacatt	tttccttctgca...36...	gctctaataccgagaaggta	GATCAAAT	GTTCA	tcctccattgccgttgacac	----	..48..	gtgaatacactt	tgttttta---
D.Sec	ataacatt	tttccttctgca...36...	gctctaataccgagaaggta	GATCAAAT	GTTCA	tcctccattgccgttgacac	----	..48..	gtgaatacactt	tgttttta---
D.Ere	caaacatt	tttccttctgca...36...	gctctaataccgagaaggta	GATCAAAT	GTTCA	tcctccattgccgttgacgc	----	..50..	---aatacactt	ctttttcttc
D.Ana	ttaaaata	tttccttctgct...39...	actctaatacagcaaaaggta	GATCAAAT	GTTCA	tcct---ttccgttgaccgctgc	..43..	gtgaatacactt	ttatatat---	
D.Gri	ataacatt	tgtgggtagcct...44...	actctaataccgctgaaggta	GATCAAAT	GTTCA	ttcttatctgcccgttgactc	----	..47..	gtgaatacactt	tattttac---
D.Moj	ttcatatt	aacctttctgcg...37...	actctaataccgctgaaggta	GATCAAAT	GTTCA	ttctcatatgccgttgactc	----	..46..	gtgaatacatat	tttattat---
D.Per	atatagtt	tttccttctgcg...38...	actctaataccgcaaaaggta	GATCAAAT	GTTCA	gctctcctctgcccgttgact	----	..49..	gtgaatacaatt	aattttct---
D.Pse	atatagtt	tttccttctgcg...38...	actctaataccgcaaaaggta	GATCAAAT	GTTCA	gctctcctctgcccgttgact	----	..49..	gtgaatacaatt	aattttct---
D.Yak	aaaacatt	tttccttctgca...36...	gctctaataccgagaaggta	GATCAAAT	GTTCA	tcctccattgccgttgacac	----	..48..	gtgaatacactt	tgtttttc---
	*	* * *	***** **	*****	**	* *****		*****	*	*

id=62720 gene=FBgn0082922 name=snoRNA:Or-aca4 segment=chr2R.13504261.13504422.1 type=EN

D.Mel	atgctcag	gtaatatacatc...359...	ttcttttcggttctctgccc	--TGAAC	taGTTT	-tGATC	ataaaatcacttcataatctt...134...	cttcaattgcag	attattca
D.Sim	atgctcag	gtaatatacatc...371...	ttcttttcggttctctgccc	--TGAAC	taGTTT	-tGATC	ataaaatcacttcataatctt...134...	cttcaattgcag	attattca
D.Sec	atgctcag	gtaatatacatc...371...	ttcttttcggttctctgccc	--TGAAC	taGTTT	-tGATC	ataaaatcacttcataatctt...134...	cttcaattgcag	attattca
D.Ere	atgccag	gtaatatacatc...367...	ttcttttcggttctctgccc	--TGAAC	taGTTT	-tGATC	ataaaatcacttcataatctt...134...	cctcaattgcag	attattca
D.Ana	ataactcag	gtaatagattgt...308...	cccgcccgcc-tctctgcgcc	--TGAAC	taGTTT	-tGATC	ataaaatcacttcataatctt...119...	ctcttctccag	attattca
D.Gri	atgccag	gtaacgtaacca...670...	ttgcctcacgccttgccgct	--TGAAC	taGTTT	-tGATC	ataaaatcactttatatctt...265...	attgtttgcag	atcatcca
D.Moj	atgcacag	gtaagactcaca...1632...	--gcatgaggcaggtcctgt	TGAAC	taGTTT	-tGATC	ataaaatcactttatatctt...226...	tctttgttcag	atcatcca
D.Per	actgcag	gtaagaggggga...139...	--tgctggagactcctgtcctg	--GAAC	taGTTT	ctGATC	ataaaatcacttcataatctt...107...	tgccccttcag	atcgttca
D.Pse	actgcag	gtaagaggggga...157...	--tgctggagactcctgtcctg	--GAAC	taGTTT	caGATC	ataaaatcacttcataatctt...107...	tgccccttcag	atcgttca
D.Yak	atgctcag	gtaattaaatt...368...	ttcttttcggttctctgccc	--TGAAC	taGTTT	-tGATC	ataaaatcacttcataatctt...134...	cctcaattgcag	attattca
	* * **	****	*	*	*****	*****	*****	** **	** * **

id=115705 gene=FBgn0000497 name=ds segment=chr2L.654701.655273.-1 type=IN

Figure 387: CS=10.8



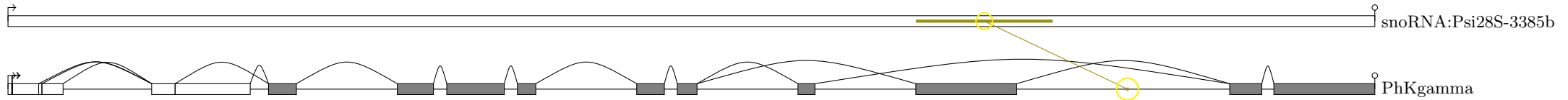
D.Mel	atgacatt	tttccttctgca...32...gctcgcctctaataccgctgaa	GGTAGA	TCAAA	CGTT	catcctccattgccgttgac----	50...gtgaatacactt	tgtttttc---
D.Sim	ataacatt	tttccttctgca...32...gctcgcctctaataccgagaa	GGTAGA	TCAAA	CGTT	catcctccattgccgttgac----	50...gtgaatacactt	tgttttta---
D.Sec	ataacatt	tttccttctgca...32...gctcgcctctaataccgagaa	GGTAGA	TCAAA	CGTT	catcctccattgccgttgac----	50...gtgaatacactt	tgttttta---
D.Ere	caaacatt	tttccttctgca...32...gctcgcctctaataccgagaa	GGTAGA	TCAAA	CGTT	catcctccattgccgttgac----	52...--aatacactt	cttttttctt
D.Ana	ttaaaata	tttccttctgct...35...tctaactctaatacagcaaaa	GGTAGA	TCAAA	CGTT	catcct----ttccgttgaccgct...	45...gtgaatacactt	ttatata---
D.Gri	ataacatt	tgtgggtagcct...40...gctaactctaataccgctgaa	GGTAGA	TCAAA	CGTT	cattcttctatctgccgttgac----	49...gtgaatacactt	tattttac---
D.Moj	ttcatatt	aacctttctgcg...33...tgtaactctaataccgctgaa	GGTAGA	TCAAA	CGTT	cattctcatatgccgttgac----	48...gtgaatacactt	tttattat---
D.Per	atatagtt	tttccttctgcg...34...acaaactctaataccgcaaaa	GGTAGA	TCAAA	CGTT	cgctctcctctgccgttgac----	50...gtgaatacactt	aattttct---
D.Pse	atatagtt	tttccttctgcg...34...acaaactctaataccgcaaaa	GGTAGA	TCAAA	CGTT	cgctctcctctgccgttgac----	50...gtgaatacactt	aattttct---
D.Yak	aaaacatt	tttccttctgca...32...gctcgcctctaataccgagaa	GGTAGA	TCAAA	CGTT	catcctccattgccgttgac----	50...gtgaatacactt	tgtttttc---
	*	* * *	***** **	*****	**	* *****	***** *	*

id=62720 gene=FBgn0082922 name=snoRNA:Or-aca4 segment=chr2R_13504261_13504422.1 type=EN

D.Mel	acgacatg	gtgagtactgta...456...ttatttgatagctcggccca	AATGt	TTTGGCTGCC	aaggc	gatggccttgggtggc--...	672...tttcattgcag	aataccgg
D.Sim	acgacatg	gtgagtactgta...444...ttatttgatagcgcggccca	AATGt	TTTGGCTGCC	aaggc	gatggccttgggtggc--...	666...tttcattgcag	aataccgg
D.Sec	acgacatg	gtgagtactgta...443...ttatttgatagcgcggccca	AATGt	TTTGGCTGCC	aaggc	gatggccttgggtggc--...	667...tttcattgcag	aataccgg
D.Ere	tgcacttg	gcaaaaaaattt...528...ttatttgatagcgcggccca	AATGt	TTTGGCTGCC	aaggc	gatggccttgggtggc--...	670...tttcattgcag	aataccgg
D.Ana	acgacatg	gtgagtactgta...519...ttatttgatagcgcgtccca	AATGT	TTGGCTGCC	aaggc	aatgaatc--gtcctgc...1306...ctgtggtttcag	aacaccgg	aacaccgg
D.Gri	acgatatg	gtaagcagacag...618...ttatttgatagcgcgtccca	AATGT	TTGGCTGCC	aaggc	aatgaatc--gtcctgc...1306...ctgtggtttcag	aacaccgg	aacaccgg
D.Moj	acgatatg	gtaagcagacag...244...ttatttgatagcgcggccca	AATGT	TTGGCTGCC	aaggc	aatgaatc--gtcctgc...1475...ttgtggtttcag	aataccgg	aataccgg
D.Per	atgatatg	gtgagtgcaga...257...ttatttgatagcgcgtccca	AATGT	TTGGCTGCC	aaggc	aatgaatc--gtcctgc...1372...attcgtttcag	aataccgg	aataccgg
D.Pse	atgatatg	gtgagtgcaga...262...ttatttgatagcgcgtccca	AATGT	TTGGCTGCC	aaggc	aatgaatc--gtcctgc...1428...attcgtttcag	aataccgg	aataccgg
D.Yak	acgacatg	gtgagtactgta...593...ttatttgatagcgcggccca	AATGt	TTTGGCTGCC	aaggc	gatggccttgggtggc--...	675...tttcattgcag	aataccgg
	* ** *	* * *	***** **	*****	*****	*****	** ***	** *****

id=82564 gene=FBgn0016920 name=nompC segment=chr2L_5347230_5348436.1 type=IN

Figure 388: CS=10.8



```

D.Mel agtccgca tgcacaatcccc...41...gcggggagttgtgccaaagcATTTgaATGGttGGGTTCCAgaTAACtt-tccatagttaaatttggccaataatcatttggacag-:~::~-----gga-
D.Sim agtccgca tgcacactcccc...39...aagcggagttgtgccagagcATTTgaATGGttGGGTTCCAgaTAACtt-tccatagttaaatttggccaataatcatttggacag-:~::~-----aga-
D.Sec agtccgca tgcacactcccc...39...aagcggagttgtgccagagcATTTgaATGGttGGGTTCCAgaTAACtt-tccatagttaaatttggccaataatcatttggacag-:~::~-----aga-
D.Ere agtatgca tgcacactcccg...39...gagagggattgtgctagagcATTTgaATGGttGGGTTCCAgaTAACtt-tacatagttaaatttggccaataatcatttggacag-:~::~-----aga-
D.Gri aagtagca tatatatgtaga...79...-----aagtatgccaaagcaaaagaATGATGGGTTCCAtaTAACtttaattatagttacatttggccaataatcgttcggacaa-:~::~-----aca-
D.Per ttgcagcg tgcctctaacca...54...-----ggtaatgccagagcaaatgaATGATGGGTTCCAtaTAACtt-ttcatagttacatttggccaataatcatttggacaga-:~::~ttacatttggccaataatcatttggacagacacatcaaa-
D.Pse gaattctg tgcctattctcc...192...-----ggtcatgccagagcaaaagaATGATGGGTTCCAtaTAACtt-ttcatagttacatttggccaataatcatttggacag-:~::~-----aaa-
D.Wil attacgtc cgcatattttct...48...-----atztatgccagagcaaaagaATGATGGGTTCCAtgTAACtt-tacatagttatgttggccaataatcgtttggacaa-:~::~-----aaac-
D.Yak agtctgca tgcacactccgt...38...gaaaggagttgtgccagagcATTTgaATGGttGGGTTCCAgaTAACtt-tccatagttaaatttggccaataatcatttggacag-:~::~-----gag-
          *** * ***      ***** *****      *****      *****      *****      *****      *****

```

id=32641 gene=FBgn0082961 name=snoRNA:Psi28S-3385b segment=chr3R.1421923.1422062.-1 type=EN

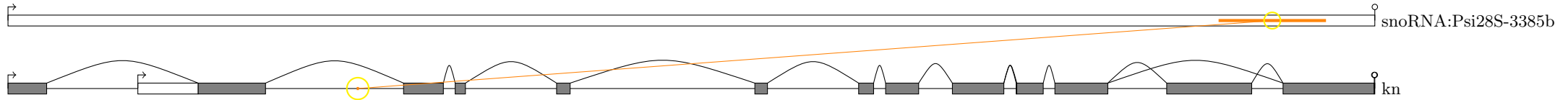
```

D.Mel cagtgcag gcaggttttcca...1353...atgtgtgtctataagtcggtGTTGTGGAgACTCccTTGTGAGTaaaccaagtcaaactgagat...722...tctgatgtttag ctgcgcaa
D.Sim cagtgcag gcaggttttcca...1350...atgtgtgtctataagtcggtGTTGTGGAgACTCccTTGTGAGTaaaccaagtcaaactgagat...697...tctgatgtttag ctgcgcaa
D.Sec cagtgcag gcaggttttcca...1361...atgtgtgtctataagtcggtGTTGTGGAgACTCccTTGTGAGTaaaccaagtcaaactgagat...695...tctgatgtttag ctgcgcaa
D.Ere cagtgcag gcaggttttcca...1427...atgtgtgtctataagtcggtGTTGTGGAgACTCccTTGTGAGTaaaccaagtcaaactgagat...711...tctcacgtttag ctgcgcaa
D.Gri cagcaaca gcagcagcagca...1254...atgtgtgtctataagtcggtGTTGTGGAgACTCccTTGTGAGTagtagtaaaccaagtaaaact----...796...ttatatgtttag ctgcgcaa
D.Per aagtgcag gcaggttttcc...1172...atgtgtgtctataagtcggtGTTGTGGAgACTCccATTGTgagtagaccaagaaaactg----...1617...tcccacatag cttcgcaa
D.Pse aagtgcag gcaggttttcc...1148...atgtgtgtctataagtcggtGTTGTGGAgACTCccATTGTgagtagaccaagaaaactg----...1432...tcccacatag cttcgcaa
D.Wil cagtgcag gcaggttttcc...1154...ctctctctgtcagagtcgtGTTGTGGAgACTCccATTGTgagtagtaaaccaagaaaactg----...1889...ttttacaacag ctgcgcaa
D.Yak cagtgcag gcaggttttcca...1417...atgtgtgtctataagtcggtGTTGTGGAgACTCccTTGTGAGTaaaccaagtcaaactgagat...742...tctcacgtttag ctgcgcaa
          *      ****      *      * * * *      **** ***** *****      *****      *****      ***      *      **      ** * * *

```

id=18873 gene=FBgn0011754 name=PhKgamma segment=chrX.11595161.11597322.1 type=IN

Figure 389: CS=13.32



D. Mel	agtcgca	tgcacaatccc...84...taactt-tccatagttaaatt	TGGCCAATAATCa	TTTGG	-----	acagcataaccgga
D. Sim	agtcgca	tgcacactccc...82...taactt-tccatagttaaatt	TGGCCAATAATCa	TTTGG	-----	acagcataactaga
D. Sec	agtcgca	tgcacactccc...82...taactt-tccatagttaaatt	TGGCCAATAATCa	TTTGG	-----	acagcataactaga
D. Ere	agtagca	tgcacactccg...82...taactt-tacatagttaaatt	TGGCCAATAATCa	TTTGG	-----	acagcataactaga
D. Gri	aagtagca	tatatatgtaga...117...-aacttaattatagttacatt	TGGCCAATAATC	-----	-----	gttcggacaaccgattaca
D. Per	ttgcagcg	tgcctctaacca...91...taactt-ttcatagttacatt	TGGCCAATAATCa	TTTGG	acagaaaactccaacgtagcagaattctgtgcccctatt	gttacatttggccaataatcatttggacagacacatcaaa
D. Pse	gaattctg	tgcctattctcc...229...taactt-ttcatagttacatt	TGGCCAATAATCa	TTTGG	acagtcacat	-----
D. Wil	attacgtc	cgcatatcttct...85...taactt-tacatagttatgtt	TGGCCAATAATCg	TTTGG	acaaaaaatt	-----
D. Yak	agtctgca	tgcacactccgt...81...taactt-tccatagttaaatt	TGGCCAATAATCa	TTTGG	-----	acagcataactgag

**** ***** *****

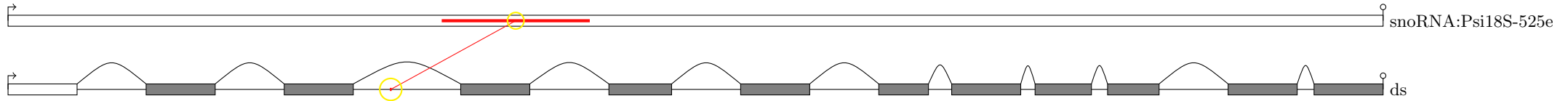
id=32641 gene=FBgn0082961 name=snoRNA:Psi28S-3385b segment=chr3R.1421923.1422062.-1 type=EN

D. Mel	cagagcaa	gtaagtaaagg...4113...-acaacaaggact---gtcataca	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...220...gatccattgcag	tttgggca
D. Sim	cagagcaa	gtaagtaaagg...4488...-acaacaaggact---gtcataca	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...219...gatccattgcag	tttgggca
D. Sec	cagagcaa	gtaagtagcgg...4193...-acaacaaggact---gtcataca	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...220...gatccattgcag	tttgggca
D. Ere	cagagcaa	gtaagtgacgg...4069...-acaacaaggact---gtcataca	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...222...gatccattgcag	tctgggca
D. Gri	cagaccaa	gtaagtcaaat...4300...-ttaaattcctttgttcacag---	GATTATTGt	GTCA	cgttgaagttgcttatgcg...612...gtctaattgcag	tttgggca
D. Per	cagaccaa	gtaagtgaatga...3474...-gcagggtcctggccatag	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...217...gttttttgcag	cctgggca
D. Pse	cagaccaa	gtaagtgaatga...3525...-gcagggtcctgctccataga	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...222...gttttttgcag	cctgggca
D. Wil	cagaccaa	gtaagtcaaatt...4630...tgtgttaattcctttattca---	TCAGGATTATTGt	GTCA	cgttgatgttgcttatgcg...278...gtgttttcacag	cctgggca
D. Yak	cagagcaa	gtaagtgacgg...3990...-acaacaaggact---gtcataca	TCAGGATTATTGt	GTCA	cgttgaagttgcttatgcg...532...gatccattgcag	tttgggca

**** ** ***** * * ** ***** * ***** * * ** * ****

id=3025 gene=FBgn0001319 name=kn segment=chr2R.10681346.10685759.-1 type=IN

Figure 390: CS=11.34



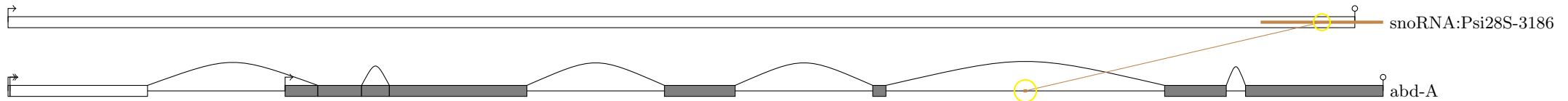
D.Mel	-----:tgagtc	aaagtggcacactta	atccatttt	-----	ATTTG	TGTC	tAAAT	gctccaat	atcaaatg	caaaa-...50...tcgc	tacaata	gctcctga	
D.Sim	-----:tgagtc	aaagtggcacactta	atccatttt	-----	ATTTG	TGTC	tAAAT	gctccaat	atcaaatg	caaaa-...50...tcgt	tacaata	ccttctga	
D.Sec	-----:tgagtc	aaagtggcacactta	aaacttttt	-----	ATTTG	TGTC	tAAAT	gctccaat	atcaaatg	caaaa-...50...tcgt	tacaata	gctcctga	
D.Ere	-----:tgagtc	aaagtggcacactta	agcatttt	-----	ATTTG	TGTC	tAAAT	gctccaat	atcaaatg	caaaa-...50...tcgt	tacaata	gatccttc	
D.Gri	-----:tgagtc	aaagtggcacatatt	ctggattcctcttc	---	GATTTG	TGTC	tAAAT	actccaaa	aatcaatc	taaat-...223...tgt	tacttct	ttatactc	
D.Moj	ggagcagattg	caaagagaattggact	gctaaaacgcaat	---	GATTTG	TGTC	tAAAT	gctccaaa	aatcaatt	atag-...49...tcgt	gtacactt	aaccaat	
D.Pse	-----:tgagtc	aaagtggcacatatt	ctgaacaacctt	---	CAGATTT	TGTC	tAAAT	actccaaa	aatcaatc	tagata-...50...tcgt	tacaata	ggccttta	
D.Vir	-----:cgagtc	aaagtggcacatatt	ttgggaatttaacaa	---	ATTTG	TGTC	tAAAT	gctccaaa	actaacta	aaag-...49...ttgt	gtacagtt	gctccaat	
D.Wil	-----gcaac	:::cgagtc	aaagtggcacatatt	---	agtttc	cattgttaca	ATTTG	TGTC	tAAAT	-ctccgaa	attaacttta	aat...49...ttgt	gtacaatc
					***	*****	*						

id=11981 gene=FBgn0083034 name=snoRNA:Psi18S-525e segment=chr2L.20419456.20419585.1 type=EN

D.Mel	agatg	tcg	gtaag	taatcta...225...	gcaa	agcactt	caatc	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caaca	-acgtc--...542...att	ttttacag	cccatcga	
D.Sim	agatg	cgc	gtaag	taatcta...244...	gcaa	agcactt	caatc	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caaca	-acgtc--...522...att	ttttacag	cccatcga	
D.Sec	agatg	ccc	gtaag	taatcta...253...	gcaa	agcactt	caatc	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caaca	-acgtc--...531...att	ttttacag	cccatcga	
D.Ere	agatatt	g	gtaag	taatatg...331...	gcaa	agcactt	caaac	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caaca	-acgtc--...582...att	ttttacag	cccatcga	
D.Gri	tgacact	g	tgagt	tactctc...810...	gcaa	aaacactt	caaac	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caacg	aatatt--...489...ctt	tctctcag	ctcaacgg	
D.Moj	tgacacc	g	tgagt	tagtaca...965...	gcaa	aaacactt	caaac	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caacg	-atattc-...522...ctc	cacttgacg	ctcaacgc	
D.Pse	ggatacc	g	tgagt	gctgcc...614...	gcaa	aaataactt	caaac	gcaa	ATTT	GGCA	gAAATCTG	caccat	caacg	gactg	caa...246...cct	ctccacag	cccatcgg	
D.Vir	tgacacc	g	tgagt	ttgtata...1170...	gcaa	aaacactt	caaac	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caaca	-atatt--...511...gtt	tttttgacg	ctcaacgc	
D.Wil	cgattc	g	gtaag	tagtaaa...269...	gcaa	aaagcactt	caaac	gcaa	ATTT	GGCA	gAAAT	ctg	caccat	caacc	-ctcaa--...206...ttg	tactttcag	ctcaacgc	
	**	*	**	***	*				***	*****	*						***	* ** **

id=115703 gene=FBgn0000497 name=ds segment=chr2L.655867.656711.-1 type=IN VIEW

Figure 391: CS=10.62



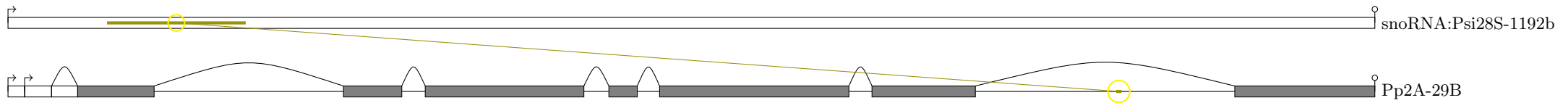
D.Mel	ttgcttgc	gtc--tgcccattc...92...aactaaccacatctaagggc	CACGA	CCCA	GGACA	---gga	ttgctagc
D.Sim	ttgcttac	gtc--tgcccattc...92...aactagccacatccaagggg	CACGA	CCCA	GGACACG	---a	ttgcnnnn
D.Sec	ttgcttac	gtc--tgcccattc...92...aactagccacatccaagggg	CACGA	CCCA	GGACACG	atTGC	T---agc
D.Ere	aacgttta	gta--agcccattc...91...aattagccacatccaattgc	CACGA	CCCA	GGACACG	atTGC	CT---gc
D.Ana	ctgcctgc	ccc--cagacagct...92...taatagccacatccaaaagc	CACGA	CCCA	GGACaa	ATAT--	-tactata
D.Gri	atTTTTc	atc--ggtcaactg...98...tataaccaaatgcaaaagc	CACGA	CCCA	GGACATGT	---	atatcata
D.Per	actctcgc	ctcaaagcccag--...104...atttaaccaaatccaaaagc	CACGA	CCCA	GGACA	---	agaaatcc
D.Wil	tcgtaaaa	gag--agcccattt...102...atcagatcaagtacaaaagc	CACGATCCCA	GGACA	aatccaa		ttactaca
D.Yak	tagttag	ttc--tgcccatt...93...aattaccacatccaattgc	CACGA	CCCA	GGACA	---	aga ttgctagc
			*		** * ** * *****		

id=5777 gene=FBgn0086662 name=snoRNA:Psi28S-3186 segment=chr3R.1423737_1423879.-1 type=EN

D.Mel	tttcaacg	gtaagtaccgca...3481...-----atcttggttagggcgcggtg	TGTCCTGGG	agTCGTG	atttatgggacgaattgtag...1428...tctcctccgag	gccccaac	
D.Sim	tttcaacg	gtaagtaccgca...3456...-----aatcttggttagggcgcggtg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1451...tcttctcctag	gccccaac	
D.Sec	tttcaacg	gtaagtaccgca...3448...--ggtcgtaaatcttggttagg	GGCGcg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1453...tctcctcctag	gccccaac
D.Ere	tttcaacg	gtaagtaccgca...3391...ggggtcgtaaatcttggtta	GGCGcg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1509...tctcctccgag	gccccaac
D.Ana	tttcaacg	gtaagtaccgca...3552...-----taaactctggttagggcgcggtg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1354...ttctttttgcag	gccccaac	
D.Gri	ttttaatg	gtaagtaccgct...3608...-----taaactctccttagggcgcggtg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1298...tgtggtttgcag	ggccccaac	
D.Per	ttttaatg	gtaagtaccgca...3542...-----atctcgttagggcgcggtg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1367...tcccgccacag	gccccaac	
D.Wil	ttttaatg	gtaagtaccgca...3597...-----atcttttttagggcgcggtg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1312...ctttttgcacag	gccccaac	
D.Yak	tttcaacg	gtaagtaccgca...3462...-----atcttggttagggcgcggtg	TGTGCTGGG	agTCGTG	atttatgggacgaattgtag...1447...tctcctccgag	gccccaac	
	*** ** *	*****	****	**** *****	*****	***	****

id=23391 gene=FBgn0000014 name=abd-A segment=chr3R.12636078_12648143.-1 type=IN VIEW

Figure 393: CS=10.62



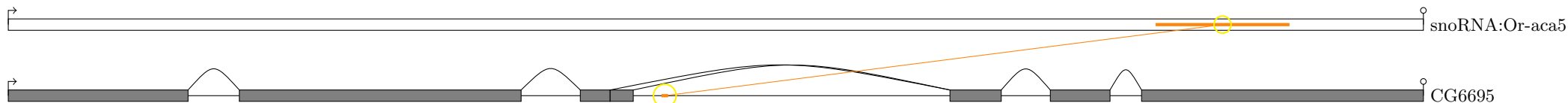
D.Mel	atttcaac	ta-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...88...aaaagaacactt	ttatgaat----		
D.Sim	atttcaac	ca-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...88...aaaagaacactt	ttatgtat----		
D.Sec	atttcaac	ca-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...88...aaaagaacactt	ttatgcat----		
D.Ere	atttcaac	ta-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...88...aaaagaacactt	acatatga----		
D.Ana	a-----	TTTTATTIgg	GTCCagTCTAATTCTG	-----	catcatggtttatttatgta--...259...aaaagaacacta	tcttctaa----		
D.Moj	attatata	tatatatatatatatatatatac	ATTAC	-----	GTCCagTCTAATTCTG	-----	catca--ggtcatttggatact...277...agaagaaca--	--acttgtaagc
D.Per	acctcaat	tgagatatcttctggatag	-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...89...agaagaacagat	atatttgt----	
D.Pse	acctcaat	tgagatatcttctggatag	-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...89...agaagaacagat	atatttgt----	
D.Wil	ggaataga	aa-----	GTCCaaTCTAATTCTATc	TTAT	gattattgcctattaagata--...273...aatgaacaat	aatttgaa----		
D.Yak	attttaat	ta-----	GTCCaaTCTAATTCTG	-----	catcatggtttatttatgta--...88...aaaagaacactc	atataatt----		
			**** *	*****	** * * ** *	** * ****		

id=15162 gene=FBgn0083000 name=snoRNA:Psi28S-1192b segment=chrX_17038316_17038453_-1 type=EN

D.Mel	agctgcag	gtaagcaataaa...331...ggagccgcccacgcttgact	-----	CGGAATgtTAGAGGAT	-----	gagtagccaacca--catgacg...274...attgtttatag	cgtaatca
D.Sim	agctgcag	gtaagcaataaa...333...ggagccgcccacgcttgact	-----	CGGAATgtTAGAGGAT	-----	gagtagccaacca--catgacg...275...attgtttgacg	cgtaatca
D.Sec	agctgcag	gtaagcaataaa...333...ggagccgcccacgcttgact	-----	CGGAATgtTAGAGGAT	-----	gagtagccaacca--catgacg...274...attgtttgacg	cgtaatca
D.Ere	agctgcag	gtaagcattaat...375...ggagccgcccacgcttgact	-----	CGGAATgtTAGAGGAT	-----	gagtagccaacca--caagacg...265...attgtttacag	cgtaatca
D.Ana	agcagcag	gtaagaatcgtt...341...ggaacctcccaaagtgtgaaa	-----	TGGAATgtTAGAGGATGAGTAGAT	-----	aagtagatgttcttcccgct--...297...tttgtttacag	cgtaatca
D.Moj	agcagccg	gtaagaaagaat...300...gcagcagctgaaaagtgttt	-----	CGGAATgtTAGAGGATgagTAGT	-----	caaaaccaaataatgtcat--...277...caaataccgtag	cgtaatca
D.Per	agcagcag	gtaagccccacc...460...tcgagagtcgagaattgaat	-----	TGGAATgtTAGAGGAT	-----	gagtagccaacaatcaaga--...227...gtttggttacag	cgtaatca
D.Pse	agcagcag	gtaagccccacc...460...tcgagagtcgagaattgaat	-----	TGGAATgtTAGAGGAT	-----	gagtagccaacaatcaaga--...228...gtttggttacag	cgtaatca
D.Wil	agcagcag	gtaagcaaccag...257...gcaactgcagccaagcagca	ATAA	ttTGGAATgtTAGAGGAT	-----	gagtagctacaaaattcaat--...1089...ttacttttgacg	cgtaatca
D.Yak	agctgcag	gtaagcattaata...366...ggagccgcccacgcttgact	-----	CGGAATgtTAGAGGAT	-----	gagtagccaacca--catgacg...273...attgttaacag	cgtaatca
		*** ** *	*****	*****	** *	** *****	

id=43941 gene=FBgn0260439 name=Pp2A-29B segment=chr2L_8369031_8369715_1 type=IN

Figure 394: CS=10.8



```

D.Mel  --at-at-tttc atgcgagcatga...80...-----ccaaatttaaaaaaccggag-TTTGcGGTGcaTATTat-tttcgtgaagctgacagtt taaaccct
D.Sim  aaataataata atgcgagca---...83...-----ccaattttcaaaaccggag-TTTGcGGTGcaTATTat-tttcgtaaagccgacactt taaaccct
D.Sec  aaataataata atgcgagca---...83...-----ccaagttttcaaaaccggag-TTTGcGGTGcaTATTat-tttcgtgaagccgacagtt taaaccct
D.Ere  --at-atattc atgcgagcacga...80...-----ccaaattgtcaataccggag-TTTGcGGTGcaTATTat-tttcgtaaagccgacagtt taaaccct
D.Ana  -aac-ctctt  gtgcgaacacga...76...--taaccxaaat-tgtttcacc-TGAAATTTGcGGTGcaTATTTAAttcgtgaagctaacaatt tttccaaa
D.Gri  -gat-tdtgt  ttgcgaacacga...78...cataaccxaaat-tatttca---GAAATTTGcGGTGcaTATTTTtTTGTGaaagcaaacattt taaataaa
D.Per  -gct--taagt  gcgcgaacacga...81...-----ccaaatttgaataactgaa-TTTGcGGTGcaTATTTTctttgcaaagccgacattt tgattccc
D.Pse  -gct--taagt  gcgcgaacacga...81...-----ccaaatttgaataactgaa-TTTGcGGTGcaTATTTTctttgcaaagccgacattt tgactccc
D.Wil  -aat-tdtca  aggcgaacacga...79...-ataaccxaa-tgttttccaGAAA-TTTGcGGTGcaTATTTCActctgtaagagcacatta caaaaaaa
D.Yak  --at-atattc atgcgagcacga...80...-----ccaaattttcaataccggag-TTTGcGGTGcaTATTat-tttcgtaaagccgacagtt taaaccct
      **** *          **** *          ***** * * * * *

```

id=102491 gene=FBgn0086672 name=snoRNA:Or-aca5 segment=chr2R.4983190.498337.1 type=EN

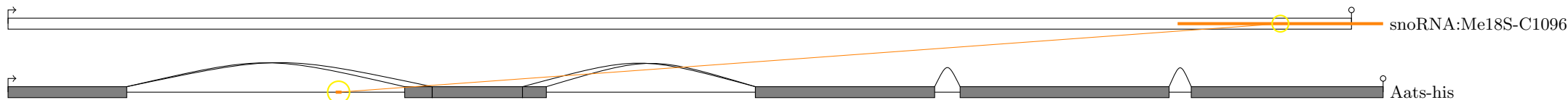
```

D.Mel  aaacccaa  gtcagtaagcaaagcc-aagtgtgtca-tgcccacccaactgg-----AGTACACCcAAA--attcagctctcagcctccc-----...624...gtgcttttacag ggctccgg
D.Sim  aaacccaa  gtcagtaagcaaagcc-aagtgtgtca-tgcccacccaactgg-----AGTACACCcAAA--attcagctctcagcctccc-----...596...atgcttttacag ggctccgg
D.Sec  aaacccaa  gtcagtaagcaaagcc-aagtgtttca-tgcccacccaactgg-----AGTACACCcAAA--attcagctctcagactccc-----...597...gtgcttttacag ggctccgg
D.Ere  aaacccaa  gtcagtaagcaaagcc-aagcgtgtca-tgcccacccaactgg-----AGTACACCcAAA--attcagctctcagcctccc-----...659...gtgcttttacag ggctccgg
D.Ana  aaacccaa  gtcagtaagcaaagcc-acatgtcctca-tgcccacccaactgg-----TGGAGTACACCcAAAaTTTC--cgctcagcctcccaccca...475...taacaattacag ggacttgg
D.Gri  aaacccaa  gtcagtaagcaaaccaaagtgtcccattgcctca--aataTGTAActGGAGTACACCcAAAaTTTC--acgcctctacc-cacaataac...1242...cgactcttacag ggacttgg
D.Per  aaacccaa  gtcagtaagcaaagcc-aagtgtctcattgcctcaccacac-----GGAGTACACCacAAAat-tttcagctcttaacctta-----...229...tgcttcttacag ggactctc
D.Pse  aaacccaa  gtcagtaagcaaagcc-aagtgtctcattgcctcaccacac-----GGAGTACACCacAAAat-tttcagctcttaacctta-----...229...tgcttcttacag ggactctc
D.Wil  aaacccaa  gtcagtaagcaaacc-aagtgttttatagcccattaac-----TGGAGTACACCcAAAaTTTC--atgtctcaacctca-accaaa...477...aaatgtttacag ggacttgg
D.Yak  aaacccaa  gtcagtaagcaaagcc-aagcgtgtca-tgcccacccaactgg-----AGTACACCcAAA--attcagctctcagcctccc-----...624...gtgcttttacag ggctccgg
***** ***** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

```

id=19747 gene=FBgn0039215 name=CG6695 segment=chr3R.20483332.20484042.1 type=IN

Figure 395: CS=13



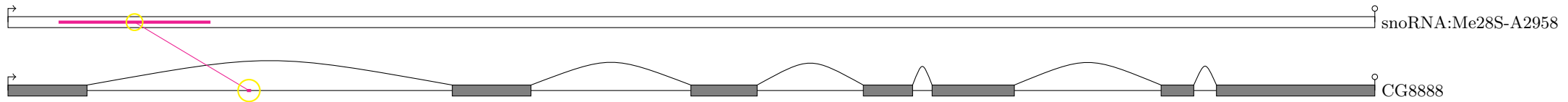
D.Mel	aacaacta-	ctttccatgatg...34...gattaaccgtgattat--ctca-	ACTAgGGCGgACTGacc-----aa	gcccactc
D.Sim	gataacta-	ctttccatgatg...34...gattaaccgtgattat--ctca-	ACTAgGGCGgACTGacc-----aa	gcccactg
D.Sec	gataacta-	ctttccatgatg...34...gattaaccgtgattat--ctca-	ACTAgGGCGgACTGacc-----aa	gcccactg
D.Ere	aacaactct	ttttccatgat-...35...gattaaccgtgattat--ctca-	ACTAgGGCGgACTGact-----aa	gcccactc
D.Gri	-ataatcaa	ttttccatgatg...38...-a-aaaccgtgattattaatta-	ACTAgGGCGgACTGatttgcac---	-ttaaatt
D.Per	aagaatcg-	attttccatgatg...36...-atcaaccgtgattattactt--	TACTAgGGCGgACTGact-----aa	gcttcac
D.Pse	aagaatcg-	attttccatgatg...36...-atcaaccgtgattattactt--	TACTAgGGCGgACTGact-----aa	gcttcac
D.Vir	-atatcgaa	ttttccatgatg...38...-tcaactgtgattatgactta-	ACTAgGGCGgACTGactttgcataaaa	gcaaaaac-
D.Wil	tttagttg-	tttttgcatacg...41...---ttccgtgattatcaattata	ACTAgGGCGaACTGact-----aa	gcaaaaac-
D.Yak	tcttactc-	ctttccatgatg...33...gattaaccgtgattat--ctca-	ACTAgGGCGgACTGact-----aa	gcccattc
		*** * * ***** * ***** *		

id=24342 gene=FBgn0086055 name=snoRNA:Me18S-C1096 segment=chr3R.7048127.7048211.1 type=EN

D.Mel	aggagaag	gtcagtttttg...	1857...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	126...	gcatcaggttag	catctaag
D.Sim	aggagaag	gtcagtttttg...	1849...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	123...	gcatcaggttag	catctaag
D.Sec	aggagaag	gtcagtttttg...	1836...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	123...	gcatcaggttag	catctaag
D.Ere	aggagaag	gtcagtttttg...	1847...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	123...	gcatcaggttag	catctaag
D.Gri	aagagaag	gtcagaaacaca...	1086...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	132...	acataaggttag	catctgaa
D.Per	aggagaag	gtcagtgttctg...	1558...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	140...	caataaggttag	catctaag
D.Pse	aggagaag	gtcagtgttctg...	1534...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	140...	caataaggttag	catctaag
D.Vir	aagagaag	gtcagtacgaaa...	2435...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	138...	gcataaggttag	catctaag
D.Wil	aggagaag	gtcagtttcttg...	1654...	---tgcgtttcagttttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	105...	ccataaggttag	catctaag
D.Yak	aggagaag	gtcagtttttg...	1846...	tgttgcggttcaa---ttggccgc	CAGTggCGCTgTAGT	gctgcgtttcagtggtgcaac-...	120...	gcatcaggttag	catctaag
	* *****	*****		*****	*****	*****		*****	*****

id=14413 gene=FBgn0027087 name=Aats-his segment=chrX.18409716.18411777.1 type=IN

Figure 396: CS=10.8



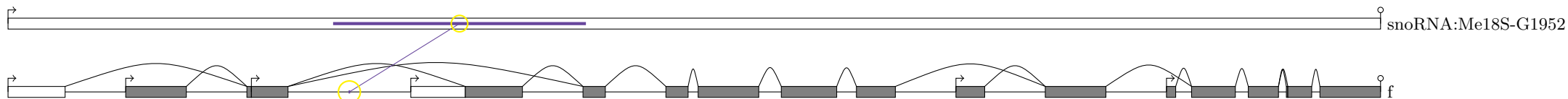
D.Mel	aggac-CCA	TAAATTATGACGA	---atgtca-gtggatgattgcaa-...90...---	acgcctgatatt	tgtgctac
D.Sim	aggac-CCA	TAAATTATGACGA	---atgtca-gtggatgattgcaa-...91...---	acgcctgatatt	tgtgctac
D.Sec	aggac-CCA	TAAATTATGACGA	---atgtca-gtggatgattgcaa-...91...---	acgcctgatatt	tgtgctac
D.Ere	agga-GCCA	TAAATtaTGACGAC	---tgtca-gtggatgattgcaat...97...---	acgcctgatatt	tgtgctgc
D.Ana	agga-GCCA	TAAATTAttACGAT	---tgtca-ctggatgattgtaat...102...---	acgcctgatatt	tgtgctac
D.Gri	aggt-CCCA	TAAATtaTGACGATTGT	cgacacaaagtacgagttcg--...117...---	ttagttttatc	tgttgggc
D.Per	-gtaGGCCA	TAAATTATGACGA	---ttgtca-atggatgattacaa-...101...---	acgcctcgtctg	ggggggag
D.Vir	aggc-CCCA	TAAATtaTGACGATTGT	cgattacatgtacgattacg--...113...cccgttgtt	tgtttatc	t-ttg---
D.Yak	aggac-CCA	TAAATtaTGACGAC	---tgtca-gtggatgattgcaat...95...---	acgcctgatatt	tgtgctac
	*	***	***** **		* * *

id=90055 gene=FBgn0086037 name=snoRNA:Me28S-A2958 segment=chr2L.16417750.16417884.-1 type=EN

D.Mel	acaatatg	gtaagtgaaatc...1101...--accatttgattatttcgcac	TGTCGTTGATTTATGG	ccaatggccaaaagg-gctg-...815...tttatccttag	cgccgtgc
D.Sim	acaatatg	gtaagtgaaatc...1096...--accatttgattatttcgcac	TGTCGTTGATTTATGG	ccaatggccaaaagg-gcgg-...786...ttcatccttag	cgccgtgc
D.Sec	acaatatg	gtaagtgaaatc...1098...--accatttgattatttcgcac	TGTCGTTGATTTATGG	ccaatggccaaaagg-gcgg-...787...ttcatctatag	cgccgtgc
D.Ere	acaatatg	gtaagtgaaatc...1018...--ccatttgattatttcgcact	GTCGTTGATTTATGGC	ccaatggccaaaagg-gcgg-...831...ttcatccttag	cgccgcgc
D.Ana	acaatatg	gtaagtgaaact...1408...--ccatttgattatttcgcact	GTCGTTGATTTATGGC	ccaatggccaaaaggatgtgg-...1000...cccttcattag	cgcagtgc
D.Gri	acaatatg	gtaagttgcct...1430...ccatcatttgattatttcac	ACAGTCGTTGATTTATGGG	cgatagatgttcct-gcctt...1815...attcaatttag	cgtcgcgc
D.Per	acaatatg	gtaagtgaaatg...1339...--accatttgattatttcgcac	TGTCGTTGATTTATGGCC	aatggccaaaagg-gggttg-...860...ctctctctag	cgccgtgc
D.Vir	acaatatg	gtaagttaaact...1877...ccaccatttgattatttcac	ACAGTCGTTGATTTATGGG	cg-tggatgccttttagccag-...2266...tttaatttcag	cgccgtgc
D.Yak	acaatatg	gtaagtgaaatc...1138...--ccatttgattatttcgcact	GTCGTTGATTTATGG	ccaatggccaaaagg-ggcg-...849...ttcatccttag	cgccgcgc
	*****	*****	***** **	***** * * *	** * *

id=94559 gene=FBgn0033679 name=CG8888 segment=chr2R.7964804.7966799.-1 type=IN

Figure 397: CS=10.8



```

D.Me1 -----atGTTTT TTTTAttGATGAAaGTAAttACCGtacgacttttgtgatta-aatttaaaggctgcaaattt:::-----
D.Sim -----tgta-aa-----TT TTTTAttGATGAAaGTAAttACCGtacgacttttgtgatta-aatctaaaggctgcaaattt:::-----
D.Sec -----tgta-aa-----TT TTTTAttGATGAAaGTAAttACCGtacgaattttgtgatta-aatctaaaggctgcaaattt:::-----
D.Ere -----ttgc-aa----atgt----TTTAttGATGAAaGTAAttACCGtacgacttctgtgatta-aatctaaaggctgcaaattt:::-----
D.Ana tgtaagatttg-aa----at-----GATGAATGTAAttACCGTAAGatttcttggattaaaaacattatggctgcaaattt:::-----
D.Moj at-tgtgttttcgaa--at-----GATGAAaGTAAttACCGtatgattctgtgattaaaaacccatggctgcaatttt:::-----
D.Per tgatgaatttg-aatagtat-----GATGAAaGTAAttACCGtatgatgttttggatta-aatctccatggctgcaattatt:::-----
D.Pse tgatgaatttg-aatactat-----GATGAAaGTAAttACCGtatgatgttttggatta-aatctccatggctgcaattatt:::-----
D.Wil atataagtttcc-aa----at-----GATGAATGTAAttACCGtatgatttctgtgataacaacattatggctgcaattatt:::ttttatggctgcaattattgcaactgaattgtttaaga
D.Yak -----ttgc-aa----atgt----TTTAttGATGAAaGTAAttACCGtacgacttctgtgatta-aatctaaaggctgcaaattt:::-----
          ***** ***** **          *** * **          ***** * **

```

id=82030 gene=FBgn0082950 name=snoRNA:Me18S-G1952 segment=chr2R.10510307.10510382.1 type=EN

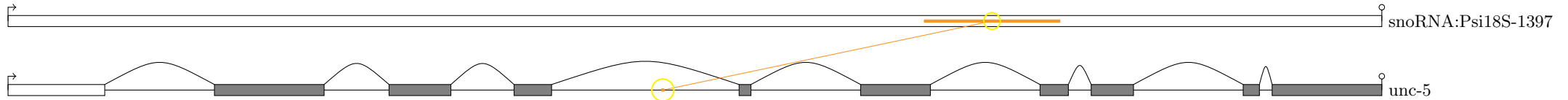
```

D.Me1 gatatttg gtaagttagatga...3839...-----gatgaaaaatcaac---ttaaTGGTTTACaaTTCATTtcTAAGcGAGAAAGC---tggaatgtaacaagtagt...1054...aaattgtacaa---a taaagtga-----
D.Sim gatatttg gtaagttagatga...3871...-----gacgaaaaatcaac---ttaaTGGTTTACaaTTCATTtcTAAGcGAGA---aaagctggaatgtaacaa-----...1007...aaattgtacaa---a taaagtga-----
D.Sec gatatttg gtaagttagatga...3892...-----gacgaaaaatcaac---ttaaTGGTTTACaaTTCATTtcTAAGcGAGA---aaagctggaatgtaacaa-----...1006...aaattgtacaa---a taaagtga-----
D.Ere gatatttg gtaagttagatga...3925...-----gatgaaaaatcaac---ttaaTGGTTTACaaTTCATTtcTAAG---cgagaaaagctggaatgt-----...862...aaattgtacga---a ttaagtgg-----
D.Ana gatatttg gtgagttagatga...3422...cggggagatgaaaaatcagc---TTAAtTGGTTTACaaTTCATTtct-a--agcgagaaaagctgga-----...1481...aaactataaact---a taaacta-----
D.Moj gacatttg gtaagtgaatcg...3264...-----gatgaaaaatcaac---ttaaTGGTTTACaaTTCATTtctgt--agcga--aaagctgga-----...1645...-----atgcaa---a t-taacggaagccg
D.Per gatatttg gtaagtcaaatc...3706...-----gatgaaaaatcaac---ttaaTGGTTTACaaTTCATTtctaa--agcgagaaaagctgg-----...1203...-----gatacgatacga tacgatac-----
D.Pse gatatttg gtaagtcaaatc...3681...-----gatgaaaaatcaac---ttaaTGGTTTACaaTTCATTtctaa--agcgagaaaagctgg-----...1228...-----gatacgatacga tacgatac-----
D.Wil gatatttg gtgagtgtgcc...3115...-----aaaacatctcaagtttaTGGTTTACaaTTCATTtcgaatgtgcgagaaaagct-----...1001...tgaatgca---a tgcaacga-----
D.Yak gatatttg gtaagttagatga...4019...-----gatgaaaaatcaac---ttaaTGGTTTACaaTTCATTtcTAAG---cgagaaaagctggaatgt-----...884...aaattgtacaa---a tcgagtgg-----
** ***** ** ***          *** ** *          ***** *****          *          *          *

```

id=9436 gene=FBgn0000630 name=f segment=chrX.17157012.17162101.1 type=IN

Figure 399: CS=10



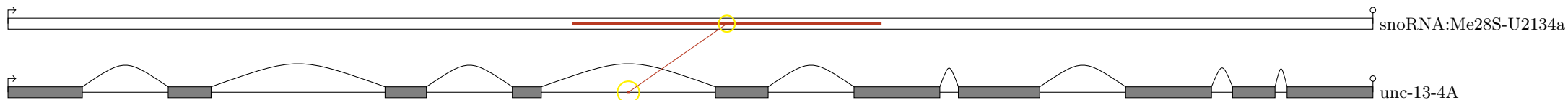
D. Mel	----tatgcgag	ttggcagaactt...49...	gccagaacaaattcc--aggca	TTGTcGTCTTCAGCAGTT	-----	GCCTCA	-----gtgtggcctctgtctgaacatggcactgtcacaatc	gtatccaa
D. Sim	----tatgcgag	ttggcagaactt...54...	-----aacaatccc--aggcattgac	GTCTTCAGCAGTT	-----	GCCTCA	-----gtgtggcctctgtctgaacatggcactgtcacaatc	gtgtccaa
D. Sec	----tatgcgag	ttggcagaactt...49...	gccagaacaaattccc--aggca	TTGTcGTCTTCAGCAGTT	-----	GCCTCA	-----gtgtggcctctgtctgaacatggcactgtcacaatc	gtgtccaa
D. Ere	---tacgctag	ttggcagaactt...54...	-----aacaatctc--aggctttgac	GTCTTCAGCAGTT	-----	GC	-----ctctgtgtggcctctgtctgaacatggcactgtcacaat	caatccac
D. Ana	---atatctgaa	t-ggcaggaactt...54...	-----accaaagccc--aggcattggc	GTCTTCAGCAGTTGCCGTTCTGT	-----	GCCTCTGT	-----ctgaacatgccactgctaca--	gtatactt
D. Gri	at ttgattt	---ttgcaaaactt...59...	-----aaagctccaaaggcctttggc	GTCTTCAGCGTT	-----	GC	-----ctctaacctggcctcggtctgaacatgccattgctacaaat	gaatcttt
D. Vir	atactagtt	---ttgcaaaactt...59...	-----aaagctccaaaggcctttggc	GTCTTCAGCAGTT	-----	GCCTCATT	at---acatgggcctcagctgaacatgccattgctacaaaa	gcatctga
D. Wil	---tagttgaa	atggcgaaactt...58...	-----ataaaacttt--agtttatgac	GTCTTCAGCA	-----	GC	-----cgagaatttggcctatgatctgaacatgacataagcacatt	ttgttaa
D. Yak	---tatgcgag	ttggcagaactt...54...	-----aacaatccc--aggcattgac	GTCTTCAGCAGTT	-----	GCCTTA	-----gtgtggcctctgtctgaacatggcactgtcacaat	gaaaccac
	*	** ****	*** **	** ***** **		**	***** **	***

id=59576 gene=FBgn0083044 name=snoRNA:Psi18S-1397 segment=chr3L_5755960_5756100_-1 type=EN

D. Mel	atgtccag	gtacgttcctgc...1267...	---gcgcacagcgggcacagcaa	-----	TGAGCAATTGTTGAcAGACaaGCGG	gccaatgggtgatgggaaa...309...	cgccaacaacag	aggacact
D. Sim	atgtccag	gtacgttcctgc...1317...	---gcgcacagcgggcacagcaa	-----	TGAGCAATTGTTGAcAGACaaGCGG	gccaatgggtgat-----...299...	cgccaacaacag	aggacact
D. Sec	atgtccag	gtacgttcctgc...1284...	---gcgcacagcgggcacagcaa	-----	TGAGCAATTGTTGAcAGACaaGCGG	gccaatgggtgatgggaaa...301...	cgccaacaacag	aggacact
D. Ere	atgtccag	gtacgttcctgc...1295...	-----cacagcgggcacagcaatga	-----	GCAATTGTTGAcAGACaaGCGG	gccaatgggagat-----...330...	tgccaacaacag	aggacact
D. Ana	ctgccag	gtatgtacagt...1184...	---taggatacttggccagcgc ACAGcGGGCACAGcAATG	-----	GCAATTGTTGAcAGACaaGCGG	gccaatgggagc-----...337...	tgccaacaacag	aggacact
D. Gri	atgtccag	gtatgcaaacg...1388...	---cgcacagcgggcacagcaatga	-----	GCAATTGTTGAcAGACaaGCGG	gccaatgggagc-----...351...	caacaacaacag	aggacact
D. Vir	atgtccag	gtatgcaaacg...1379...	---agcgcacagcgggcacagc	-----	AATGAGCAATTGTTGAcAGACaaGCGG	gccaatgggagc-----...320...	caacaacaacag	aggacact
D. Wil	gtgtccag	gtaacaacaca...990...	---aggcatagc---cacagcaatga	-----	GCAATGTTGAcAGACaaGCGG	gccaatgggagc-----...294...	tgacaacaacag	aggacact
D. Yak	atgtccag	gtacgttcctgc...1411...	---gcgcacagcgggcacagcaa	-----	TGAGCAATTGTTGAcAGACaaGCGG	gccaatgggagc-----...364...	tgccaacaacag	aggacact
	** ****	***	* * **		*****	* *****	*****	*****

id=117644 gene=FBgn0034013 name=unc-5 segment=chr2R_11246255_11247919_1 type=IN

Figure 400: CS=10.62



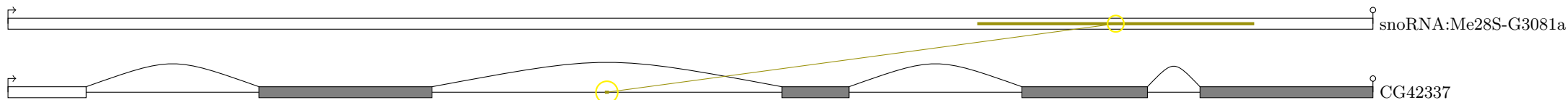
D. Mel	ctgatcca	cgcgacatgatgaacattaca	TTCTTAC	ctACATT	ATTTGA	actaga	aacc-tgta	aaccaac-tct	caactgatgca	ttcatcta	-----
D. Sim	ctgctcca	cgcgacatgatgaacattaca	TTCTTAC	ctACATT	ATTTGA	acgaga	aaccgtgta	aaccaac-tct	caactgatgca	ttcatcta	-----
D. Sec	ctgctcca	cgcgacatgatgaacattaca	TTCTTAC	ctACATT	ATTTGA	acgaga	aaccgtgta	aaccaac-tat	caactgatgaa	ttcatcta	-----
D. Ere	ttgtacca	tccgacatgatgaactactaca	TTCTTAC	ctACATT	ATTTGA	atgaga	aaccgtgta	aaccaac-tct	caactgatgct	ttcaccta	-----
D. Ana	ttgtacg	agctcagtgattactactaca	TTCTTAC	ctACATT	ATTTGA	acgaga	aaccgtgta	aaccaac-acc	aaactgatgct	taaaacta	-----
D. Per	ccgaacta	actttcg---	TGATG	atTATT	TCTTAC	ctACATT	ATTTGA	acgaga	aagtcgtgta	aaccaac-ct	caactgatcgg
D. Pse	ccgaacta	actttcg---	TGATG	atTATT	TCTTAC	ctACATT	ATTTGA	acgaga	aagtcgtgta	aaccaac-ct	caactgatcgg
D. Vir	ctgcgact	gctagcatgatga	TGATG	atTATT	TCTTAC	ctACATT	ATTTGA	acgaga	aagtcgtgta	aaccaac-ct	caactgattca
D. Wil	tctaagtc	cttgctatgatgcttctta---	TCTTAC	ctACATT	ATTTGA	acgaga	aagtcgtgta	aaccaaca	cacaactgatgc	-taaactg	aaatttatagc
D. Yak	ctcctcca	ctcgacatgatgaatattaca	TTCTTAC	ctACATT	ATTTGA	acgaga	aaccgtgta	aaccaac-tct	caactgatgct	ttcaccta	-----
			**	**	*****	*****	***	*	*****	**	*

id=62261 gene=FBgn0086051 name=snoRNA:Me28S-U2134a segment=chr3R.1451089-1451163.1 type=EN

D. Mel	tgccaatg	gtaagcta	aacac...836...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	atacgtt	gagtgctc	ccttc-g-----	...1373...	ccgctc	gtctag	gtttctcg
D. Sim	tgccaatg	gtaagcca	aacac...785...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	atacgtt	gagtgctc	ccttc-g-----	...1382...	ccaccg	cccag	gtttctcg
D. Sec	tgccaatg	gtaagcca	aacac...803...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	atacgtt	gagtgctc	ccttc-g-----	...1334...	ccaccg	cccag	gtttctcg
D. Ere	tgccaatg	gtaagccag	cac...782...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	atacgtt	gagtgctc	ccttc-g-----	...1482...	ttgccg	cccag	gtttctcg
D. Ana	tgccaatg	gtaagcgcccc	...621...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	atacgtt	gagtgctc	ccttc-g-----	...909...	tcacg	ttatag	gtttctcg
D. Per	cgccaatg	gtaagagccact	...635...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	AATACGTTG	agtgctc	ccttc-gtctacttc...	...1133...	tcggccc	gcag	gtttctcg
D. Pse	cgccaatg	gtaagagccact	...608...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	AATACGTTG	agtgctc	ccttc-gtctacttc...	...1028...	tcggccc	gcag	gtttctcg
D. Vir	tgccaatg	gtaaga	acacgg...1064...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	AATACGTTG	agtgctc	cccgtgctagcctc...	...1147...	gtttct	ttgcag	gcttctcg
D. Wil	tgccaatg	gtaagcat	caat...458...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	aatacgtt	gagtgctg	cctc-----	...1780...	ctctct	gttag	gtttctcg
D. Yak	tgccaatg	gtaagccag	cac...825...	aatttcg	catttta	atgtgc	TCAAGGATGTGTAAGGA	atacgtt	gagtgctc	ccttc-g-----	...1576...	ttgccg	cccag	gtttctcg
	** **	****		*****	*****	*****	*****	*	*			**	*****	

id=10581 gene=FBgn0035756 name=unc-13-4A segment=chr3L.7267774-7270063.-1 type=IN

Figure 401: CS=12



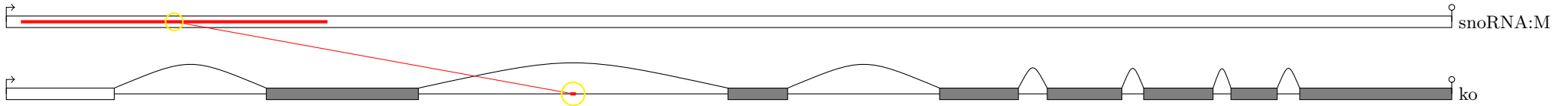
D. Mel	taggcagg	ctt-----acatgatgattttattcgtaccgccccagctctgaaga	GACGTgtTGATT-GGTT	atattatactgata	gaaaaaac
D. Sim	taggcagg	ctt-----acatgatgataaatattcgtaccgccccagctctgaaga	GACGTgtTGATT-GGTT	atattatactgata	gaaaaaat
D. Sec	taggcaga	ctt-----acatgatgattataactcgtaccgccccagctctgaaga	GACGTgtTGATT-GGTT	atattatactgata	gaaaaaac
D. Ere	gcagatgg	ctt-----acttgatgataaatattcgtaccgccccagctctgaaga	GACGTgtTGATT-GGTT	atattatactgata	ataaaaag
D. Ana	----tggg	cttgttcc--tcgtgatgtttat-ttcttaccgccccagctctgaaaa	GACGTgtTGATT-GGTT	tcaattctgata	gcaagtgc
D. Moj	----cgtg	cccgttttaaaatgatgtttat-a-aataccgccccagctctgaaaa	GACGTgtTGATT-GGTT	ttcaactgata	aaatttat
D. Per	aatgtgtg	ttt-----ccatgatgtttt-cgtataccgccccagctctgaaca	GACGTgtTGATT-GGTT	ttaattctgatt	acaaatg-
D. Pse	aatgtgtg	cct-----tcatgatgtttt-cgtataccgccccagctctgaaca	GACGTgtTGATT-GGTT	ttcaattctgatt	acaaatgc
D. Vir	aacacgtg	cctatttttaccatgatgtttat-c-tataccgccccagctctgaaa	AGACGTgtTGATT-GGTT	ttcaatgctgata	aaaatgcc
D. Yak	ggagatgg	ctt-----aaatgatgattatatactaccgccccagctctgaaga	GACGTgtTGATT-GGTT	atttttactgaca	gaaaaaag
		**** * *	*****	*****	**** * **** *

id=45107 gene=FBgn0063381 name=snoRNA:Me28S-G3081a segment=chr2R.13586713_13586781_1 type=EN

D. Mel	tattaccg	gtaagttgacat...625...ccaacgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1683...cttattttcag	atgacata
D. Sim	tattaccg	gtaagttgtcag...674...ccgatgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1681...ctcatttttcag	atgacata
D. Sec	tattaccg	gtaagttgtcag...667...ccgacgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactctgaaatactt...1705...cttatttctcag	atgacata
D. Ere	tattaccg	gtaagttgtcag...562...ccgacgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1722...cttattttccag	atgacata
D. Ana	tattccc	gtaagttgtcag...2032...ccgacgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1993...cttgttttccag	atgacata
D. Moj	tatgcccg	gtaagttgtcag...1930...tcgacattttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctcaaatgctt...2069...ccaattttccag	atgacata
D. Per	tattccc	gtaagttgtcag...526...ttgccgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1627...cttgttttccag	atgacata
D. Pse	tattccc	gtaagttgtcag...529...ttgccgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1520...cttgttttccag	atgacata
D. Vir	aatgcccg	gtaagttgtcag...1102...tcgacattttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatgctt...1695...ctaattttccag	atgacata
D. Yak	tattgccg	gtaagttgtcag...651...ccgacgttttgcaaacactc	AACCAATCAGCGTT	-ggttaactgctgaaatactt...1699...attattttccag	atgacata
	** **	***** **	*****	*****	*** ** *****

id=1303 gene=FBgn0259239 name=CG42337 segment=chr3L.21179501_21181886_-1 type=IN

Figure 402: CS=10.8



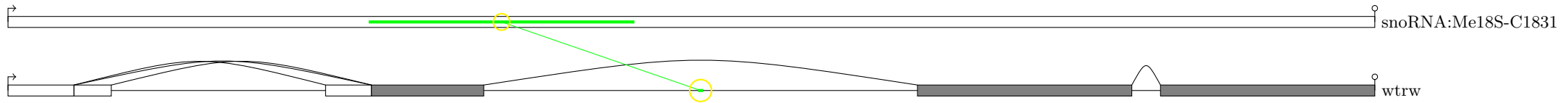
D.Mel	gGGTAtgA	AATtcAATGatTTCAA	-cttcactgctgacca-gccac-...51...tctaataca-cac	ttattttg---
D.Ere	gGGTAtgA	AATtcAATGatTTCAA	-cttcactgctgacaa-gccac-...51...tctaatt-aacac	ttctcca---
D.Ana	gGGTAtgA	AATGcAATGatTTCAA	-ctttaccgctgacca-gcca-...48...actaaccca----	ttctccccttt
D.Gri	gGGTAtgA	AATGcAATGatTTCAA	-cttaaaagctgaccacgcca-...59...gctgctcct-cgt	ttaatgtg---
D.Per	gGGTAtgA	AATGcAATGatTTCAA	-ctt-aaagctga-tatgccacg...57...-aattttgtcct	ttcattcga--
D.Pse	gGGTAtgA	AATGcAATGatTTCAA	-ctt-aaagctga-tatgccacg...57...-aattttgtcct	ttcattcga--
D.Vir	gGGTAtgA	AATGcAATGatTTCAA	-cttcacaactga-cacgccg...123...atttgtata-tat	ttgtttg---
D.Wil	gGGTAtgA	AATttAATGatTTCAA	ctttactactga---tztatg...63...gctaattacaat	cttttgt---
D.Yak	gGGTAtgA	AATtcAATGatTTCAA	-cttcactgctgacca-gccac-...56...-ctaattcaacac	ttctcccg---
*****	***	*****	** *	****

id=66471 gene=FBgn0044508 name=snoRNA:M segment=chrX_1376525.1376623.-1 type=EN

D.Mel	tatttcag	gtgagtttcgat...4350...tgttcctgtcactgcacaaa	TGGACATTTATT	gcTGCCC	-cagtcaccacttttccgcac...554...catgttttcag	aactttct
D.Ere	tatttcag	gtgagtttcgat...4364...tgttcctgtcactgcacaaa	TGGACATTTATT	gcTGCCC	-cagtcaccacttttccgcac...540...catgtcttgag	aactttct
D.Ana	tatttcag	gtgagtttcgat...4313...-gttcctgtcactgcacaaa	TGGACATTTATT	gcTGCCC	-cagtcaccactttaatccgc...592...tcttactacag	aacttcct
D.Gri	tatttcag	gtgagttgaac...3971...tgttcctgtcaccgcacaaa	TGGACATTTATT	gtTGCC	agcggctaaaaagtttttga--...934...tggccttacag	aatttcct
D.Per	tatttcag	gtgagtttttcg...4435...tgttcctgtcactgcacaaa	TGGACATTTATT	gtTGCCC	-catcgacagtgccctttccc...469...ttcctctgcag	aacttcct
D.Pse	tatttcag	gtgagtttttcg...4451...tgttcctgtcactgcacaaa	TGGACATTTATT	gtTGCCC	-catcgacagtgccctttccc...453...ttcctctgcag	aacttcct
D.Vir	tatttcag	gtgagtttgaac...4024...tgttcctgtcaccgcacaaa	TGGACATTTATT	gtTGCC	agcggataaaaagtttgaaaa--...881...tttctctccag	aattttct
D.Wil	tatttcag	gtgagttcttct...4330...-gttcctgtcaccgcacaaa	TGGACATTTATT	gtTGCC	agcggataaaaagtttgaaaa--...881...tttctctccag	aattttct
D.Yak	tatttcag	gtgagtttcgat...4384...tgtttctgtcactgcacaaa	TGGACATTTATT	gtTGCCC	-cagtcaccacttttccgcac...520...ttttttccag	aactttct
*****	*****	*****	*****	****	*	***

id=120060 gene=FBgn0020294 name=ko segment=chr3L_21082335.21092560.-1 type=IN

Figure 403: CS=13.32



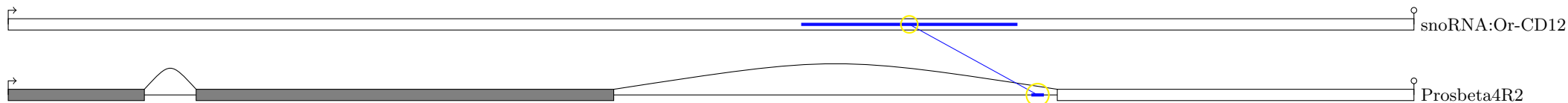
D.Mel	tgaagat-a	caccaaggc	GATGGGCGG	AGAATGCTA	ccgtac-aattgctc-tcaccgtgtagaggacagcctttcaga-----t	caaagcca
D.Sim	tgaagat-a	caccaaggc	GATGGGCGG	AGAATGC	gaccgtac-aattgctc-tcaccgtgtagaggacagcctttcaga-----t	caaagcca
D.Sec	tgaagat-a	caccaaggc	GATGGGCGG	AGAATGC	gaccgtac-aattgctc-tcaccgtgtagaggacagcctttcaga-----t	caaagcca
D.Ere	tgaagag-a	caccaaggc	GATGGGCGG	AGAATGC	gaccgtac-aattgctc-tcaccgtgtagaggacagcctttcaga-----t	caaagcca
D.Ana	tgaagataa	tcccaaggc	GATGGGCGG	actGAAT	-----cctatgtagagAACAGCCTTTcaga-----t	caaagcca
D.Gri	tgaagag-a	tcccaaggc	GATGGGCGG	actGAATGCGA	ccgtac-aattgctcttttcagtgtagagaa-AGCCTTTcaga-----t	caatgata
D.Moj	tgaagag-a	tcccaaggc	GATGGGCGG	actGAATGCAAA	cgtaacaattgctc-tcccgtgtagataa-cgcctttcagatacaaaacaaaagt	caaaatca
D.Per	tgaagat-a	tcccaaggc	GATGGGCGG	actGAATGCGA	ccgtac-aattgctc-tcaccatgtagagaa-AGCCTTAcaga-----t	caaagaca
D.Pse	tgaagat-a	tcccaaggc	GATGGGCGG	actGAATGCGA	ccgtac-aattgctc-tcaccatgtagagaa-AGCCTTAcaga-----t	caaagaca
D.Vir	tgaagag-a	caccgaagg	CGATGG	CGGactGAATGCGA	ccgtac-aattgctc-tcctcgtgttgcaaaaagcctttcaga-----t	caaaaca
D.Wil	tgaagat-t	cacctaaggc	GATGGGCGG	actGAATGCGAATGT	gc-aatcgctc-aaatcctgttgagaaatgcctttcaga-----t	caaagatt
	*****		** *****	***	*** * * *****	**

id=25651 gene=FBgn0065053 name=snoRNA:Me18S-C1831 segment=chr2L.4457603.4457674.-1 type=EN

D.Mel	aataaccg	gtaagtgccagt...1384...-----gcgttttttcacacaacatt---	TAGCATTTC	CCGCCCGTT	-ag-----acgc-gattgtctgggctc-...1749...gcatctccacag	cttcaaat	
D.Sim	aataaccg	gtaagtgccagt...1790...-----gtttttttcacacaacattt---	GCATTTC	CCGCCCGTT	-ag-----acgc-gattgtctgggctc-...1703...gcatctccacag	cttcaaat	
D.Sec	aataaccg	gtaagtgccagt...1390...-----gtttttttcacacaacattt---	GCATTTC	CCGCCCGTT	-ag-----acgc-gattgtctgggctc-...1691...gcatctccacag	cttcaaat	
D.Ere	aataaccg	gtaagtgccagt...1337...-----gtttttttcacacaacattt---	GCATTTC	CCGCCCGTT	-ag-----acgc-gattgtctaggccc-...1521...gcatccccacag	tttcaaat	
D.Ana	aataaccg	gtaagttccagt...997...-----ttttttcacacaacattttgc---	ATTTCCG	CCCGTT	-ag-----atac-aattgtctaagccc-...1335...taccatgacag	cttcaaat	
D.Gri	aataaccg	gtaagtggcaat...1318...-----gttttcgtttgttttttt	TTGCATTTC	CCGTCGGTT	-ag-----acac-aattgtttaagcg-...2237...ttttaacaacag	tttcaaat	
D.Moj	aataaccg	gtaagtgccagt...1085...-----tcgcgttttcacacaacatt---	TTGCATTTC	CCGCCCGTT	-ag-----acacacattatacaagcg-...1476...tacttgaatag	tttcaaat	
D.Per	aataaccg	gtaagtgccacc...1331...-----cgtttttttcacacaacattt---	TTGCATTTC	CCGCCCGTT	-agagatgaacac-aattgtat-----...1303...tcttcaacatag	cttcaaat	
D.Pse	aataaccg	gtaagtgccacc...1371...-----cgtttttttcacacaacattt---	TTGCATTTC	CCGCCCGTT	-agagatgaacac-aattgtat-----...1305...tcttcaacatag	cttcaaat	
D.Vir	aataaccg	gtaagtgccagt...1036...-----tttttcacacaacattt---	TTGCATTTC	CCGTTG	gg-----cac-aattgttgcaacct...1632...tatttgaacag	tttcaaat	
D.Wil	aataaccg	gtaagtgccagt...1748...aattcgcttttttcacaca---	ACATT	TTGCATTTC	CCGCCCGTT	-ag-----acacaattgttgaaagc-...883...ttgttttcag	tttcaaat
	*****	***** **	** *	*****	***** * * * * *	** *****	

id=112293 gene=FBgn0260005 name=wtrw segment=chr3R.3720353.3723567.1 type=IN

Figure 407: CS=12.65



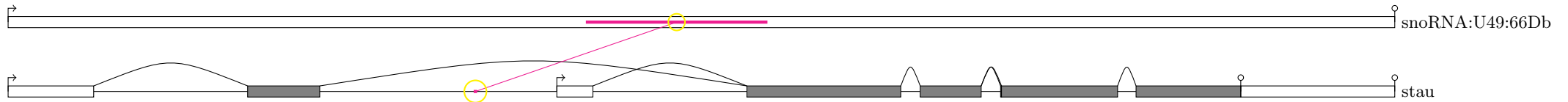
D. Mel	tttgggtt	cttg-tcatgatgatcttttttaatgctacac--aaCCAAGATCGcAGAA	tgatcgtgttgataaacttatctg-----	.....	-----	tcaaagc
D. Sim	tttgggtt	cttg-tcatgatgatc-ttttttaatgctacac--aaCCAAGATCGcAGAA	tgatcgtgttgataaacttatctg-----	.....	-----	tcaaaac
D. Sec	tttgtggtt	cttg-tcatgatgatc-ttttttaatgctacac--aaCCAAGATCGcAGAA	tgatcgtgttgataaacttatctg-----	.....	-----	tcaaacac
D. Ere	tttgggtt	cttg-ttatgatgata-ttttttaatgctactaaCCAAGATCGcAGAA	tgaccgtgttgataaacttatctg-----	.....	-----	tcaacaa
D. Ana	ttaaagta	gtaa--atgatgattcctttttt---tttactacacCCAAGATCGcAGAA	tgatcatgttgataaactttctg-----	.....	-----	ttgaaaa
D. Gri	tttgatc-	---gtatgtgatgatatcttta-t---tttactactacaCCAAGATCGcAGAA	ttcgtgttgaaacaattatctgatttactattttaaac:::	tttgctgttgaatattctttgctgatgtcactctcaaat	.....	-----
D. Per	gaactatc	cctg-atatgatgatccttattttaatgctacat---aCCAAGATCGcAGAA	tgatcgtgttgaaaaaattgtctg-----	.....	-----	ttttagc
D. Pse	gaattatc	cctg-atatgatgatccttattttaatgctacat---aCCAAGATCGcAGAA	tgatcgtgttgaaaaaattgtctg-----	.....	-----	ttttagc
D. Vir	ggtgatct	ctagattctgatgatatctatatt---tttactactacaCCAAGATCGcAGAA	cgatcgtgttgaatattctttctgatttg-----	.....	gtcg-tgttgagcaatcttttctgat---	ttatcaat
D. Yak	tttgggtt	cttg-ttatgatgatc--tttttaatttgctac--aaCCAAGATCGcAGAA	tgatcgtgttgataaacttctg-----	.....	-----	tcaacca
		***** * * *	***** * ***** * ****			*

id=35220 gene=FBgn0086068 name=snoRNA:Or-CD12 segment=chr3L.3221350.3221427_-1 type=EN

D. Mel	aggaggag	gtgggtgagtgg...4001...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacacctccagca-g	aaacgaca
D. Sim	aggaggag	gtgggcgagtgg...3987...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacacctcgagca-g	aaacgaca
D. Sec	aggaggag	gtgggcgagtgg...3929...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacacctccagca-g	aaacgaca
D. Ere	cggaggag	gtgggtgactgg...3972...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacacctccagca-g	caacgaca
D. Ana	aggattgg	gagggcatttgg...4158...--attttgtaatttcaaacttt	TTCTatTGATtcCTGG	cacgcatgaacaccttcagcagg	gaatgac-
D. Gri	tggaggcg	gtgaatgactga...4916...caatttttaatttcaaact	TTTCTatTGATtcCTGG	cacgcatgaacaccttcagca-a	cagcgccg
D. Per	tctcgagg	gtggacgagtac...4070...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacaccttcagca-a	cagcgacg
D. Pse	tctcgagg	gtggacgagtac...4084...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacaccttcagca-a	cagcgacg
D. Vir	gaggggag	ctggtgatttaa...4918...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacaccttcagca-a	cagcgccg
D. Yak	ggaaggag	gtgggtgatgc...3986...--attttgtaatttcaaacttt	TTCTatTGATttCTGG	cacgcatgaacacctccagca-g	caacgaca
		* * *	**** * ***** * ***** * ****		* * *

id=58364 gene=FBgn0031443 name=Prosbeta4R2 segment=chr2L.2656332.2660403.1 type=I3

Figure 408: CS=10.8



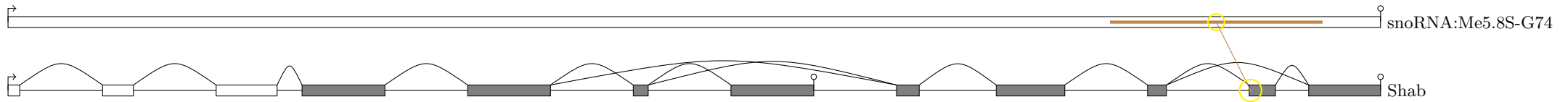
D.Mel	--tccttgaa--	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatatatgaagctaattctagtttatctgattaca	atcatagc-----
D.Sim	--tccttgaa--	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatatatgaagctaattctagtttatctgataaca	atcctagc-----
D.Sec	--tccttgaa--	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatatatgaagctaattctagtttatctgattaca	atcctagc-----
D.Ere	--gccttgaa--	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatatatgaagctaattctagtttatctgacaaca	atccttagc-----
D.Ana	aatttctaaa--	--gtacatgatgatagttgaaagtct	TGATAGGAATTG	ccggctgacacatacatgaagctagctttt-tt-ttaactgac	accataac-----
D.Gri	cagctttg----	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatacatgaagctagctttt-tt-ttaactgaa	a--ccagctataaa-----
D.Moj	--tctgtgtg--	ctgcacatgatgataaattgaa	TGTT ct TGATAGGAATTG	ccggctgacacatacatgaagctagcttttatt--ttaaactgaa	a--ccagcttaaattgatta
D.Pse	-----atcgatct	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatacatgaagctagctctg-tt-tctaactg--	atcgcagctctaaga-----
D.Vir	-----ttgaagtg	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatacatgaagctagctttt-gt--ttaaactgaa	atcccagc-----
D.Yak	-----ttgaactg	ctgcacatgatgataaattgaaagtct	TGATAGGAATTG	ccggctgacacatatatgaagctaattctagtttatctgattaca	atcctagc-----
	*	* * * * * *		* * * * * *	* * * * *

id=63241 gene=FBgn0060291 name=snoRNA:U49:66Db segment=chr3L_8595048_8595131_1 type=EN

D.Mel	cacgcacg	gtaagccatcta...522...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaattg-gt	gtgagact-----	...234...	agttgcg	ttttg	cctgccgg
D.Sim	cacccacg	gtaagcaattta...446...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg-gt	gtgagact-----	...234...	agttgcg	ttttg	cctgccgg
D.Sec	cacccacg	gtaagcaattta...522...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg-gt	gtgagact-----	...234...	agttgcg	ttttg	cctgccgg
D.Ere	cacgcacg	gtaagatatcaa...528...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg-gt	gtgagact-----	...234...	agttgcg	ttttg	cctgccgg
D.Ana	catgcacg	gtaagagtcctg...282...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg-gt	gtgagact-----	...233...	agttgcg	ttttg	cctgccac
D.Gri	catggacg	gtgagcgctcaa...93...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg	gcctgtgagac-----	...320...	agtcgc	ctttgg	cctcacac
D.Moj	catggacg	gtaaggaatgct...78...	gtacggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg	gcctgtgagactcatca...	...264...	agttgct	ctgca	gtcgcgtg
D.Pse	catccacg	gtaaacattctg...115...	atgcgatg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg-gt	gtgagact-----	...250...	agttgcg	ttttg	cctggcac
D.Vir	cacggacg	gtaagcgataga...88...	gtacggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg	cctgtgagac-----	...337...	agtcgc	ttttg	cctgcct
D.Yak	catgcacg	gtaagaaatcga...512...	atgcggtg	cgccaattatgt	TAATTCCTGTCA	ctgacaatcg-gt	gtgagact-----	...234...	agttgcg	ttttg	cctgccgg
	** ** *		* * * * * *			* * * * * *			** ** *		

id=31115 gene=FBgn0003520 name=stau segment=chr2R_14011367_14012198_-1 type=IN

Figure 409: CS=10



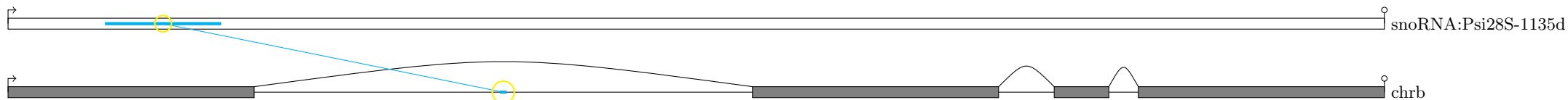
D.Me1	gttgactt	c-----	ttgctctgatgacaaaaacacg-aaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agctt	caaatca--
D.Sim	gttgactt	c-----	ttgctctgatgacaaaaacacg-aaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agctt	caaatcc--
D.Sec	gttcactt	c-----	atgctctgatgacaaaaacacg-aaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agctt	caaatca--
D.Ere	tttgattt	c-----	ttgctctgatgacagaaacacg-aaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agctt	ctccatca--
D.Ana	ataaatga	c-----	ttgagagatgacagaaacacgaaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agctt	ttgaatca--
D.Gri	-----	-----	cgccccacattgctctgatgacaaaaacacgaaaagaacaatcatggtgagacact	TGTGTCCTGCAGTG	ctg---agctt	t--aattaga
D.Vir	attggcct	ttctctcctcgaattg	cgctctgatgacaaaaacacgaaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agcat	ttgttagaca
D.Wil	tttgaact	ctt-----	ttgctctgatgacaaaaacacg-aaaagaacaatcatggtgagacact	TGTGTCCTGCAGTG	ctgagcagcat	ttccc----
D.Yak	gttgactt	c-----	ttgctctgatgacaaaaacacg-aaaagaacaatcatggtgagacact	ATGTGTCCTGCAGTG	ctg---agctt	ctccatca--
			***	*****	*****	***

id=9836 gene=FBgn0086066 name=snoRNA:Me5.8S-G74 segment=chr3L.829922.829992.-1 type=EN

D.Me1	cgaccaag	gtaacgaggggt...505...	ttacgatacca--accgaacgt----	TGTTGCAG	GA	CGCA	t
D.Sim	cgaccaag	gtaacgggggt...499...	ttacgatacca--accgaacgt----	TGTTGCAG	GA	CGCA	t
D.Sec	cgaccaag	gtaacgggggt...498...	ttacgatacca--accgaacgt----	TGTTGCAG	GA	CGCA	t
D.Ere	cgaccaag	gtaacgggggt...497...	ttacgatacca--accgaacgt----	TGTTGCAG	GA	CGCA	t
D.Ana	cgaccaag	gtaacattgcga...574...	-----cgcccacgagtc-cgtgtcct	TGTTGCAG	GA	CGCA	t
D.Gri	caaccaag	gtaaaatcgaca...377...	-----actgaaggactgcgtaaa	TATTGCAG	GA	CGCA	t
D.Vir	caaccaag	gtaaaatcgaca...417...	-----attgaaggactgtgtaaa	TATTGCAG	GA	CGCA	t
D.Wil	caactaag	gtaaaatcgatc...450...	-----tattgtgtgta-tgtgtaca	TATTGCAG	GA	CGCA	t
D.Yak	cgaccaag	gtaacgggcggt...555...	-----ccgaaccgataccgaacgt----	TGTTGCAG	GA	CGCA	t
	* * *	***		*	*	*****	*****

id=109855 gene=FBgn0003383 name=Shab segment=chr3L.2952108.2952652.1 type=IN VIEW

Figure 410: CS=11.52



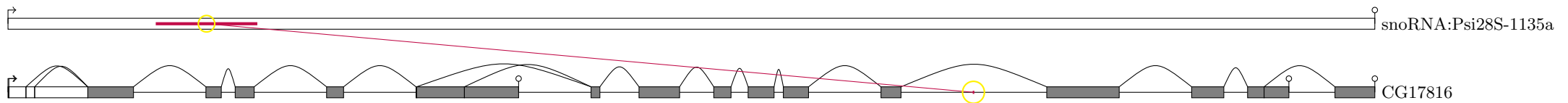
D.Mel	-----ttcacaat-----	GAGTCtACCTCAATG	TAGTTGaaGGAAATT	--ccatcccagctaaggcatat-----	...78...	aa--gactacatta	gaaagaaa----
D.Sim	ctacattagaaaagaaagcattcattagagagattagatc:::::aaaacctaattctcagaaccacgttc	AGTCcACCTCAATG	AGTCcACCTCAATG	--ccagacggcttaaaaatacc...122...	-----catta	ttcaccaagagt	
D.Sec	-----ttcacaat-----	GAGTCtACCTCAATG	TAGTTGaaGGAAATT	--ctatctcagctaaggcatat-----	...78...	aa--gactacatta	gaatgaaa----
D.Ere	-----tatcgtaat-----	GAGTCcACCTCAATG	TAGTTGaaGGAAA	--ctccatcccagctaaggcat-----	...80...	aa--gactacatta	gaaagaaa----
D.Ana	-----tthttaagtt-----	AGTCcACCTCAATG	AGTCcACCTCAATG	--ctggatggtttatgactcat...101...	ga--aaatacaatc	aatcaag----	
D.Gri	-----attaataatggaacacaatcgtAGTTctAGTCtACCTCAATG	AGTCcACCTCAATG	AGTCcACCTCAATG	--ccaggcggcgactctgttca...321...	aa--aactacatta	tccagcca	
D.Per	-----agccacattc-----	AGTCcACCTCAATG	CAGCTGAAA	ggaaaacccttccagctg-----	...90...	aa--gacaacattt	gtaagccc----
D.Pse	-----aaccacattc-----	AGTCcACCTCAATG	CAGCTGAAA	ggaaagccccttccagctg-----	...90...	aa--aacaacattt	gtaagccc----
D.Vir	-----ctacaacc-----	AGTCcACCTCAATG	ACTGtAGTCcACCTCAATG	--ccaggcagcttatttctgt...144...	aaacagctacatc	-tagtcca	
D.Yak	-----ctttataat-----	GAGTCcACCTCAATG	TAGTTGaaGGAAA	--ctccatcccagctaaggcat-----	...80...	aa--gacaacatta	gaaagaaa----

id=35265 gene=FBgn0083009 name=snoRNA:Psi28S-1135d segment=chrX_17040107_17040248_-1 type=EN

D.Mel	aattaaag	gtaagttccat...4481...	gctggaatgggaaa	----cggctGATTTCCAGCTGt	TGTTGccAGGTGATT	-----cccccgaccgccacgacc	---.414...	ttcttttttag	actggcaa
D.Sim	aattaaag	gtaagttccat...4506...	-----acggctgattttccagctgt	-----TGTTGccAGGTGATT	-----tcccccgaccgccacctc	---.404...	cttttttttag	actggcaa	
D.Sec	aattaaag	gtaagttccat...4471...	gctggaatgggaaa	----cggctGATTTCCAGCTGt	TGTTGccAGGTGATT	-----cccccgaccgccacctct	---.424...	tcttttttag	actggcaa
D.Ere	aattaaag	gtaagttccat...4500...	---tggaatgggaaa	----cggctgTTTTCCAGCTGt	TGTTGccAGGTGATT	-----cccccgcccgccacgccc	---.397...	cttttgttag	actggcaa
D.Ana	aattaaag	gtgagtactaag...4517...	-----acggctgattttccagctgt	-----TGTTGccAGGTGATT	-----tccctcg-ccccattgcgccc	---.393...	tcttttttag	actggcaa	
D.Gri	agttaaag	gtgagtactaag...3808...	-----acggctgattttccagctgt	-----TGTTGccAGGTGATT	tcAGCTcaccgccgcatggaagca	---.285...	atctctgcag	actggcag	
D.Per	aatcaaag	gtgagtaccatc...4335...	---agtgcacggcaaa	----cggctgaTTTCcAGCTGt	TGTTGccAGGTGATT	-----tcg-tgcccgctgtctccc	..218...	tctccctggcag	actggccg
D.Pse	aatcaaag	gtgagtaccatc...4270...	---agtgcacggcaaa	----cggctgaTTTCcAGCTGt	TGTTGccAGGTGATT	-----tcg-tgcccgctgtctccc	..218...	tctccctggcag	actggccg
D.Vir	agtaaaaag	gtgagtattgt...3877...	-----acggctgattttccagctgt	-----TGTTGccAGGTGATT	CAGT-----cgacccttcccggcgcc	..328...	tccgtaacggc	accagcaa	
D.Yak	aattaaag	gtaagttccat...4512...	---tggaatgggaaa	----cggctgTTTTCCAGCTGt	TGTTGccAGGTGATT	-----ccccgccccaccgccc	---.385...	ctttgttag	actggcaa

id=19781 gene=FBgn0036165 name=chrB segment=chr3L_11481702_11487189_1 type=IN

Figure 412: CS=14.5



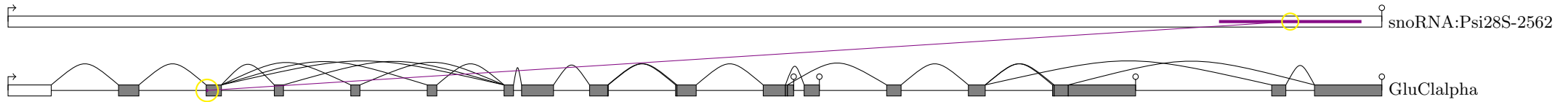
D.Mel	caattcca--	ccgcgtcc	CATGCTAAACTGTGG	ccagagaa-cgttgccactcg-----	...93...	aaaaccacatta	caaaacca-
D.Sec	cacttccaac	gagcggcc	CATGCTAAACTGTGG	ccagagaa-ctttgccactcg-----	...93...	aaaaccacacta	caaaacca-
D.Ere	cactcccaat	ggcgtcc	CATGCTAAACTGTGG	ccagagaa-ctttgccactcg-----	...93...	aaaaccacagca	caaaacca-
D.Ana	tcttttta--	gagcgtct	CATGCTAAACTGTGG	ccgcagaagtaatgccact-----	...95...	-aagccacaata	gcttcaata
D.Gri	tcatacta--	tatcgtgc	CATGCTAAACTG	----cgc-----cattgcctaaaataaac...	...98...	-aaacgacaatt	gcacatata
D.Moj	caagcacc--	tatcgtgc	CATGCTAAACTG	----ag-----ccatgcgaaaactctaac...	...91...	gaaactacaat	gaaaacaa-
D.Per	cccttcca--	c--cgtct	CATGCTAAACTGTG	ttcag----cgactccccacctgg--...	...93...	aaaactacacct	gcaacaaa-
D.Pse	cccttcca--	c--cgtct	CATGCTAAACTGTG	ttcag----cgactccccacctgg--...	...93...	aaaactacacct	gcaaccaa-
D.Vir	ctttgtca--	c--cgtgc	CATGCTAAACTGT	----gc-----ccgtgctaaaacaagcc...	...854...	aaaaccacatta	cgctatgc-
D.Yak	cacctccaac	gagcgtc-	CATGCTAAACTGTGG	ccagagaa-ccttccactcg-----	...92...	aaaaccacagca	caaaacca-
		**	*****	*		** * **	

id=15430 gene=FBgn0083012 name=snoRNA:Psi28S-1135a segment=chrX_17040645_17040792_-1 type=EN

D.Mel	acgccc	gtaagtagccat...452...	cttcgaaatacataacaat	CTATAG	TTTAGCATG	ttg-agattccgttactaaca...	...658...	acgttcttatag	ccacccta
D.Sec	acgccc	gtaagtagccat...448...	cttcgaaatacataacaat	CTATAG	TTTAGCATG	ttg-agattccgttactaaca...	...664...	acgttcttatag	ccacccta
D.Ere	acgccc	gtaagtagccat...440...	tcttcgaaatacataacaat	CTATAG	TTTAGCATG	ttg-agattccgttactaaca...	...661...	acgttcttatag	ccacccta
D.Ana	acgccc	gtaagtagccaa...450...	-ctttcgactatatttcagtc	TATAG	TTTAGCATG	ttg-agtgaaccgtactaaca...	...668...	acgttcttatag	ccaccctt
D.Gri	acgccc	gtaagtagctaa...506...	tcattcgaataaacattcta--	TAG	TTTAGCATG	ttg-agtgaacaaaa-tactaa...	...1144...	acgtttttatag	ctacctta
D.Moj	acgccc	gtaagtagccaa...581...	tctttcgaataaacattcta--	TAG	TTTAGCATG	ttg-agtgaacaaaa-tactaa...	...1207...	acgtttttatag	ccacccta
D.Per	acgccc	gtaagtagtcca...436...	gtaacataatac-taacaatc	TATAGTTT	TAGCATG	ttgaagtgaacaaaactact--...	...600...	acgtttttatag	ccacccta
D.Pse	acgccc	gtaagtagtcca...436...	gtaacataatac-taacaatc	TATAGTTT	TAGCATG	ttgaagtgaacaaaactact--...	...611...	acgtttttatag	ccacccta
D.Vir	acgccc	gtaagtagccaa...474...	gcgtttgattggtccttcga-	ATAG	TTTAGCATG	ttg-agtgacaaaa-tactaa...	...1099...	acgtttttatag	ccaccctg
D.Yak	acgccc	gtaagtagccat...421...	tcttcgaaatacataacaat	CTATAG	TTTAGCATG	ttg-agattccgtaattaaca...	...647...	acgttcttatag	ccacccta
	*****	*****	*	***	*****	*	** * **	* ** *	* ** *

id=61585 gene=FBgn0037525 name=CG17816 segment=chr3R_3687452_3688640_-1 type=IN

Figure 413: CS=16



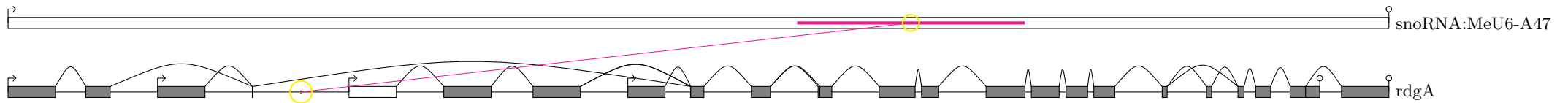
D.Mel	gtaacaaa	cgggcgaatctg...79...--ttgttggtatttcctcacac	TTTGcCTCTctGAAT	gcgacaaa--a	ctaattaa----
D.Sim	ataagaaa	cgggcgaatctg...79...--ttgttggtatttcctcactc	TTTGcCTCTctGAAT	acgacaaa--a	caaattaa----
D.Sec	gtaagaaa	cgggcgaatctg...80...--ttgttggtatttcctcactc	TTTGcCTCTctGAAT	acgacaaa--a	ctaattaa----
D.Ere	attaataa	tgggcagatctg...78...-ttgttggtatttcctcacaca	ATTTGcCTCTctGAATT	cgacaaa--a	ataattaa----
D.Ana	tctgttat	tgggcagacctg...78...ctttgatgat-tgcctcacaca	ATTTGgCTCTccGAATT	cgacaatta	ctaattta----
D.Gri	tttcctgg	tgggcagatcag...79...-tttgctgaatcttctcacaca	ATTTGgCTCTccGAAT	gcgacaac--t	ttaataa----
D.Per	cacttgaa	tgggcagatctg...80...ctttgctgat-tctcctcacaca	ATTTGgCTCTccGAATT	cgacaatccc	ttcagc-----
D.Pse	cacatgaa	tgggcagatctg...80...ctttgctgat-tctcctcacaca	ATTTGgCTCTccGAATT	cgacaatccc	ttcagctgaaaga
D.Vir	ttcttaaa	tggacagatcag...77...ctttgctggtaac-ccacaca	ATTTGgCTCTccGAATT	cgacaatata	ttaatt-----
D.Wil	tacctata	tggacagatctg...96...cgtttgcgataat-attcacaca	ATTTGgCTCTccGAATT	cgacaaa--a	ctacatct----
D.Yak	gcaacaat	tgggcaaattha...77...-ttgttggtatttcctcacaca	ATTTGcCTCTctGAATT	cgacaaa--a	ataatgcg----
		** * *	** *	*** **** ***** **	*****

id=88732 gene=FBgn0082986 name=snoRNA:Psi28S-2562 segment=chr3R.16648648.16648782.1 type=EN

D.Mel	gcttcact	gtaagtacccaa...1029...-gcgtac-ctatcc--gtatcctg	ATTTcAG	AGCAAAta
D.Sim	gcttcact	gtaagtacccac...1021...-gcgtac-ctatcc--gtatcctg	ATTTcAG	AGCAAAta
D.Sec	gcttcact	gtaagtacccac...1005...-gtacac-ctatcc--gtatcctg	ATTTcAG	AGCAAAta
D.Ere	gcttcact	gtaagtacccac...954...-tgcgtac-ctatcc--gtatcctg	GATTTcAG	AGCAAAta
D.Ana	gcttcact	gtaagtaccta...1029...-tgcgtac-ctatcc--atcctg	GATTTcAG	AGCAAAta
D.Gri	gcctcact	gtaagtactcgt...881...-gcgtac-ctatcc--atcctg	ATTTcAG	AGCAAAta
D.Per	gcttcact	gtaagtacagta...673...-gtacgttatccccatcct	GATTTcAG	AGCAAAta
D.Pse	gcttcact	gtaagtacagta...692...-gtacgttatccccatcct	GATTTcAG	AGCAAAta
D.Vir	gcctcact	gtaagtacacgc...936...-tgcgtac-ctatcc--atcctg	GATTTcAG	AGCAAAta
D.Wil	gcttcact	gtaagtattcca...861...-tgcgtac-ctatcc--atcctg	GATTTcAG	AGCAAAta
D.Yak	gcttcact	gtaagtacccat...1096...-tgcgtac-ctatcc--gtatcctg	GATTTcAG	AGCAAAta
	** *****	*****	** *****	*****

id=51690 gene=FBgn0024963 name=GluClalpha segment=chr3R.15578402.15579469.1 type=IN VIEW

Figure 414: CS=14.3



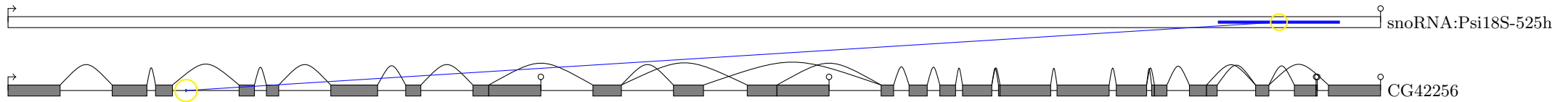
D. Mel	----tgca-----cagg	a--gcca-atgatgattaaaccacaaatgca---gggagtgggc	AGCTggCAACAGTTGGCGCAGC	catgaccagcaactaatcttctcgtgac-----gg	cattccca
D. Sim	----tgca-----cagg	a--gcca-atgatgataaaaccacaaatgga---gggagtgggc	AGCTggCAACAGTTGGctCACG	catgaccagcaactaatcttctcgtgac-----gg	cattccca
D. Ere	----tgta-----tagg	a--gctt-atgatgataaaactattaatgca---gagagtgggc	AGCTggCAACAGTTggGCACGcaTGAC	cagtaactaatcttctcgtgat-----gg	cattccca
D. Ana	----tctt-----tagg	atcgccc-aaaatgatgaaacc-ttacttca---gggagtgggc	AGCTggCAACAGTTGGCGCAGC	catgaccagattctaactcttctcgtgatttcttaag	cttaccaa
D. Gri	ttcctgtgagctgtgttg	ttcaccactgatga-aagacacaaacttcatttgggattgccc	AATTggCAACAaTTGGCGCAGC	catgaccatagactaatcttctcgtgat-----gg	cggcaaac
D. Per	----tgta-----gttg	agtcccatgatgttaaaccxaaagtgaaa---gggagtggc	catctggCAACAGTTGGCGCAGC	catgaccaataactaatcttctcgtgat-----gg	atcagata
D. Pse	----tgta-----gttg	agtcccatgatgttaaaccxaaagtgaaa---gggagtggc	catctggCAACAGTTGGCGCAGC	catgaccaataactaatcttctcgtgat-----gg	atcagata
D. Wil	ggaatgta-----t---	---gccacatgacgattg-ctttttgtaaa---gagagtggc	cagcgggCAACcGTTGGccCACG	aatgaccagttactaatcttctcgtgat-----gg	tagccatt
D. Yak	----tgta-----cagg	a--gcca-atgatgataaaactatgaatgta---gggagtgggc	AGCTggCAACAGTTGGCGCAGC	catgaccagcaactaatcttctcgtgat-----gg	cattccca
	*	* * * *	*****	*****	*

id=89582 gene=FBgn0025882 name=snoRNA:MeU6-A47 segment=chrX.21257872.21257962.-1 type=EN

D. Mel	agtgatac	gtgagtacagtc...4562...---	ctcctctctccactcaataa	TGTGCCAACTGTTGAGTT	tccttcgcttccgaatgcg...345...cagtttcatttg	aacggtcg
D. Sim	agtgatac	gtgagtacagcc...4572...---	ctcctctctccactcagtaa	TGTGCCAACTGTTGAGTT	tccttcgcttccgaatgcg...335...cagtttcatttg	aacggtcg
D. Ere	agtgatac	gtgagtacagcc...4540...tccg	tctctctccactca	GTTATGTTGCCAACTGTTGAGTT	tccttcgcttccgaatgcg...363...cagtttcatttg	aacggtca
D. Ana	agcgatac	gtgagtacaacc...4639...---	actctctctacgcggaataa	TGTGCCAACTGTTGAGTT	tccttcgcttccagcggc...268...cagtttcgtttg	aacggtcg
D. Gri	agcgatac	gtgagtactgca...4502...---	acaagtagcagtcagtcctaa	TGTGCCAAcTGTGAGTT	ttctaccgccttagcgtc...405...cagtttcatttg	aacgctcg
D. Per	agtgatac	gtgagtacaacc...4452...---	gtgcgccgtctcctcgttaa	TGTGCCAACTGTTG	agtttccttcgcttccgac...459...cagtttcatttg	aacagttg
D. Pse	agtgatac	gtgagtacaacc...4444...---	gtgcgccgtctcctcgttaa	TGTGCCAACTGTTG	agtttccttcgcttccgac...467...cagtttcatttg	aacagttg
D. Wil	agcgatac	gtgagtataacc...4580...---	ccagtcctgtccgagtaa	TGTGCCAAcTGTG	agtttccttcgcttccgac...331...cagtttcatttg	aacgttcg
D. Yak	agtgatac	gtgagtacagac...4568...---	ctcctctctccactcagtaa	TGTGCCAACTGTTGAGTT	tccttcgcttccgaatgcg...339...cagtttcatttg	aacggtcg
	**	*****	*	* *****	*****	*** *

id=108122 gene=FBgn0261549 name=rdgA segment=chrX.8810736.8819216.1 type=IN VIEW

Figure 415: CS=10.8



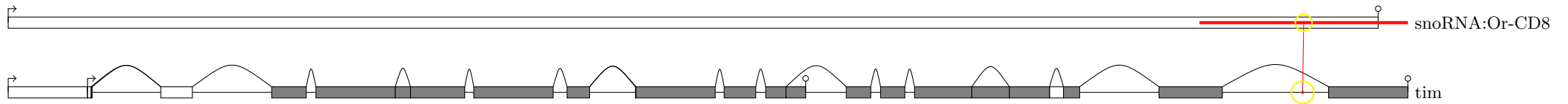
D.Mel	aaagtcac	ctgt---ggagtcaa...73...cctgaataatcaatcatatt	ATAGcaGATGACTTgTGTT	tgtgta-----	:::::aac-----	acacca-----
D.Sim	aaagtcac	ctgt---ggagtcaa...72...tcctgcataatc-atcatatt	ATAGcaGATGACTTgTGTT	tgtgta-----	:::::aga-----	acacca-----
D.Sec	aaagtcac	gtgt---ggagtcaa...78...-----ataatc-atcatattatagca	GATGACTTgTGTT	tgtgta-----	:::::aga-----	acacca-----
D.Ere	tatgtctt	ctgt---ggagtcaa...75...-----at-atcattatgttatagca	GATGACTTgTGTT	tgtgta-----	:::::aaa-----	acaata-----
D.Ana	-agaacat	cc-t---ggagtcaa...75...-----tagatcatcgtactatatca	GATGACTTgTGTT	cgtgtacatcctact-----	:::::agacgacttggtttgagtacaacagttccaat-----	
D.Gri	ccattccc	ctgtg---ggagtca...74...-cctgtttaatcccttatatt	ATAAcaGATGACTTgTGTTGGT	gta-----	:::::t-----	actccaat-----
D.Vir	-gttatac	cctca---ggagtcaa...73...-cctgtataatcacttatatt	ATAAcaGATGACTTgTGTT	tgtgta-----	:::::t-----	gctccaat-----
D.Wil	tgaataac	tgttatacggag-----80...-cctgtttaatccctcatatta	AAACaGATGACTTgTGTT	tgtgtacaatcccctaaaatctgtaaaccaaaccttagc:::::	agatgacttatgtttgtgtacaatctcctaaaaagtgtta	
D.Yak	tatatcgt	catt---ggagtcaa...78...-----ataatc-ctcatattatagca	GATGACTTgTGTT	cgacta-----	:::::att-----	attaaa-----
		****		* * * * *		**

id=99510 gene=FBgn0083031 name=snoRNA:Psi18S-525h segment=chr2L.20421304.20421438.1 type=EN

D.Mel	gcaaggcg	gtaagttaactc...84...-ccttgccctg--gacaagcc	AACAAAGTgCATTgtTTGT	ttgcagatattgcctcacat...523...ccttccaccag	atggcaaa
D.Sim	gcaaggcg	gtaagttacctc...63...-ctgcatccctg--gacaagcc	AACAAAGTgCATTgtTTGT	ttgcagatattgcctcacat...514...ccttccaccag	atggcaaa
D.Sec	gcaaggcg	gtaagttacctc...63...-ctgcatccctg--gacaagcc	AACAAAGTgCATTgttttttgcagatattgccc-----	...515...ccttccaccag	atggcaaa
D.Ere	gcaaggcg	gtaagttaaccg...69...-ccttgccctg--gacaagcc	AACAAAGTgCATTgtttgcttgcagatattgccc-----	...513...tctccactccag	atggcaaa
D.Ana	gcaaggcg	gtaagtatcccg...97...tccttgccctgt--ggc-agcc	AACAAAGTgCATTgttttattgcagatattgccc-----	...330...tctacccttag	atggcaag
D.Gri	gcaaggcg	gtaagtaactgt...153...tcctgtagcggcttaccaa	GCCAACAAAGTgCATTgtTTGT	ttgcagatattgcctcacat...559...catccttcacag	atggcaaa
D.Vir	gcaaggcg	gtaagtaatggt...131...-ctgtagcggcttaccaagcc	AACAAAGTgCATTgtTTGT	ttgcagatattgcctcacat...581...cttcttttcag	atggtaaa
D.Wil	gcaaggcg	gtaagtaacgaa...200...-tggcagcggcttaccaagcc	AACAAAGTgCATTGTTT	gtttgcagatattgcctctc--...364...ttctattcacag	atggcaaa
D.Yak	gcaaggcg	gtaagttaaccg...112...-ccttgccctg--gacaagcc	AACAAAGTgCATTgtttgcttgcagatattgccc-----	...514...ttttgtcccag	atggcaaa
	*****	*****		* * *****	** *****

id=6557 gene=FBgn0259141 name=CG42256 segment=chr3L.7175788.7176477.-1 type=IN

Figure 416: CS=10.62



D.Mel	aaatgcaa	tgtaa	aatgatg	---.37...	cttc-tt	gatgatt	gaaaagc	TTTATGTtc	GGACTACTG	-----	ataaa	tatatcgt	----
D.Sim	aaatgcaa	tattaa	aatgatg	---.37...	cttc-tt	gatgatt	gaaaagc	TTTATGTtc	GGACTACTG	-----	ata	tacatcgt	----
D.Sec	aaatgcaa	tattaa	aatgatg	---.37...	cttc-tt	gatgatt	gaaaagc	TTTATGTtc	GGACTACTG	-----	ata	tacatcgt	----
D.Ere	caatgcaa	tataaa	atgatg	---.37...	cttc-tt	gatgatt	gaaaagc	TTTATGTtc	GGACTACTG	aTTTA	-----	--	tatcgt
D.Ana	gagaggac	tcttaac	gaatg	---.37...	gttaat	gatgatg	gaaaagc	TTTATGTtc	GGACTACTG	-----	a	caactactctc	
D.Gri	aaataaaa	-ataaa	atgatgtt	...46...	--cctt	gatgatc	aaaaagc	TTTATGTtc	GGACTACTG	attat--	atataaaaaa	aaaac	-----
D.Moj	ttttgca	-ataaa	atgatgtt	...43...	.tatcag	tgatgatg	gaagca	TTATGTtc	GGACTACTG	attgc-	atttatataga	aaaataatga	--
D.Vir	aaaattat	cataaa	atgatg	---.48...	--tctt	tgatgatc	aaaaagc	TTATGTtc	GGACTACTG	attgca	aatataaat	aaaataatgat	
D.Yak	caatgcaa	tataaa	atgatg	---.37...	cttc-tt	gatgatg	gaaaagc	TTTATGTtc	GGACTACTG	aTTTA	-----	--	ttcgt
	*							*****	*	*****			

id=47540 gene=FBgn0086061 name=snoRNA:Or-CD8 segment=chr3R_25688348_25688439_1 type=EN

D.Mel	gaattaa	gtgagtgcgatt	...648...	----	gaatgccgggcattgctgaa	CAGTGTCTc	ACATAAAA	tttatggcaagcaattattc	...130...	tgatcattgcag	cagcgaca
D.Sim	gaattaa	gtgagtgcgatt	...656...	----	gaatgccgggcattgctgaa	CAGTGTCTc	ACATAAAA	tttatggcaagcaattattc	...147...	tgatcattgcag	cagcgaca
D.Sec	gaattaa	gtgagtgcgatt	...646...	----	gaatgccgggcattgctgaa	CAGTGTCTc	ACATAAAA	tttatggcaagcaattattc	...148...	tgatcattgcag	cagcgaca
D.Ere	gaattaa	gtgagtgcgatt	...696...	...	tggagaatgccgggcattgc	TGAACAGTGTCTc	ACATAAAA	tttatggcaagcaattattc	...145...	tgatcattgcag	cagcgaca
D.Ana	ttgctgaa	gtaagtattaga	...587...	----	gcatgcttggcattgctgaa	CAGTGTCTc	ACATAAAA	tttatggcaagcaattattc	...114...	ttatcttgcag	cagcgata
D.Gri	atggcaaa	gtgagtgcgatt	...230...	----	gcatgccaagcattttttta	CAGTGTCTc	ACATAAAA	tttatggcgggcaattatt	...224...	ttcttatgcag	cagcgaca
D.Moj	attgcaaa	gtgagtgcgatt	...204...	----	catgccaggtatttttgcga	CAGTGTCTc	ACATAAAA	tttatggcgggcaattatt	...273...	ttctcatgcag	cagcgaca
D.Vir	tttgcaaa	gtgagtgcgatt	...190...	----	gcatgccaagcatttttata	CAGTGTCTc	ACATAAAA	tttatggcgggcaattatt	...237...	ttttaatgcag	cagcgaca
D.Yak	gaactaaa	gtgagtgcgatt	...655...	...	tggagaatgccgggcattgc	TGAACAGTGTCTc	ACATAAAA	tttatggcaagcaattattc	...185...	cgatcattgcag	cagcgaca
	**	** **			****	*	****	*****	*****	*	** **

id=72955 gene=FBgn0014396 name=tim segment=chr2L_3494622_3495479_-1 type=IN

Figure 417: CS=11.7