

5' and 3' RACE Samples

Roche 454 FLX+ sequencing Summary

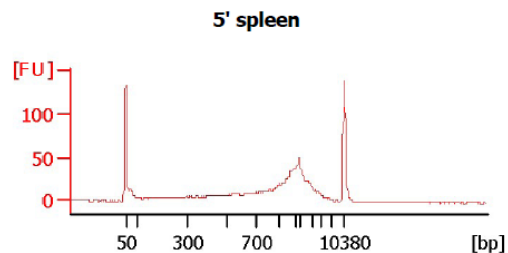
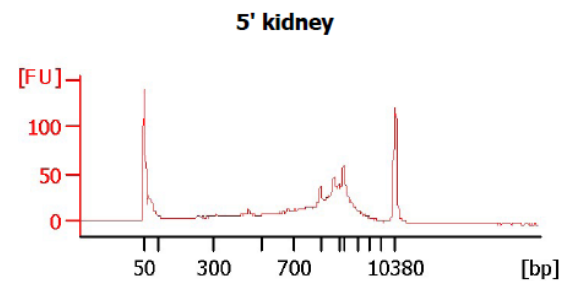
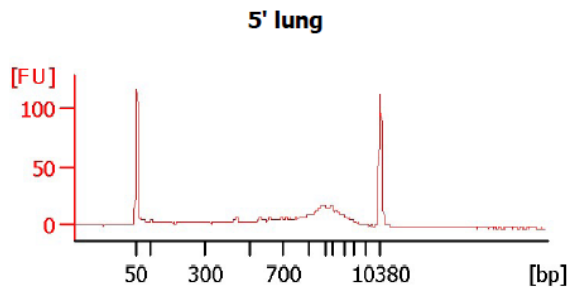
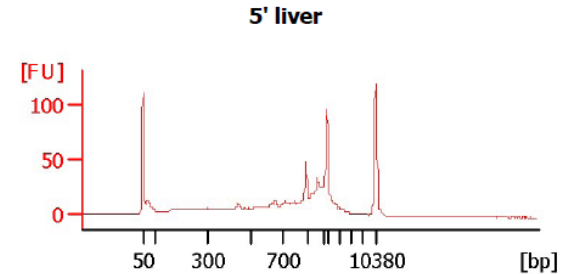
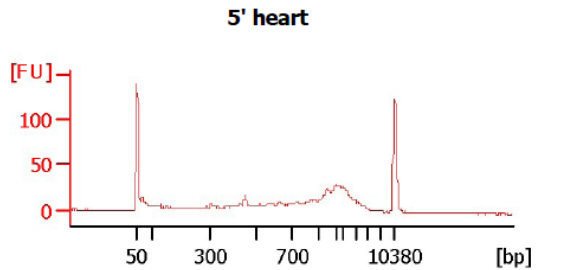
10 RACE Samples

- ☐ 5' Heart
- ☐ 5' Liver
- ☐ 5' Lung
- ☐ 5' Kidney
- ☐ 5' Spleen

- ☐ 3' Heart
- ☐ 3' Liver
- ☐ 3' Lung
- ☐ 3' Kidney
- ☐ 3' Spleen

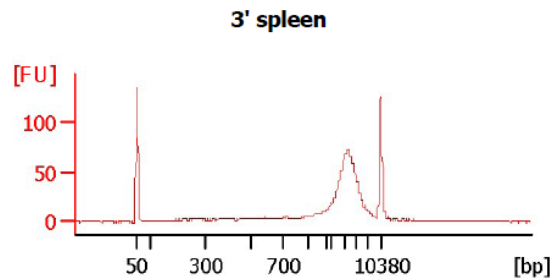
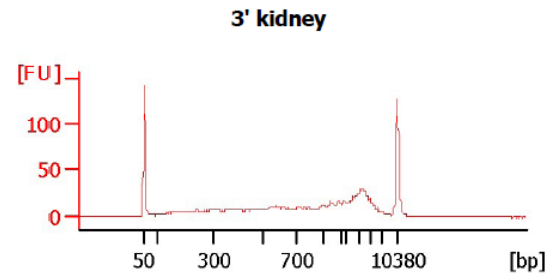
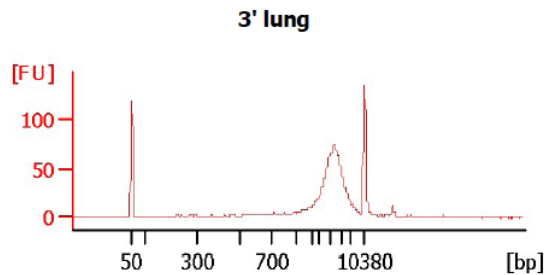
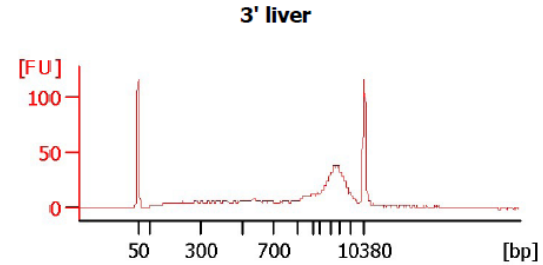
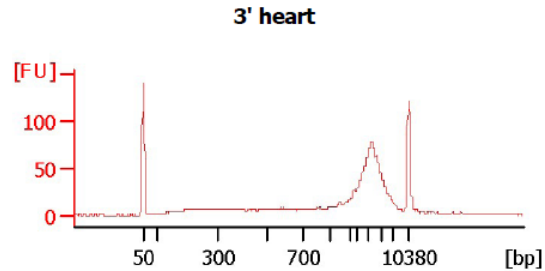
Concentration **150 ng/ml**
Volume **20 μ l**
Total amount **3 μ g**

Bioanalyzer of 5' RACE Starting Samples



Average size **smaller than 3 Kb**
They **don't** need nebulization
for library preparation

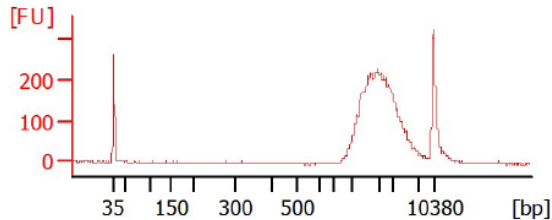
Bioanalyzer of 3' RACE Starting Samples



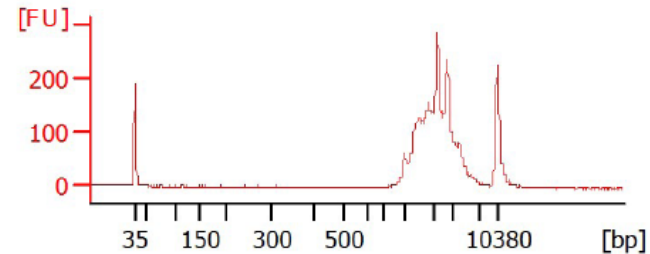
Average size **bigger than 3 Kb**
They need **nebulization** for library preparation

High Sensitivity Bioanalyzer of 5' RACE sequencing libraries

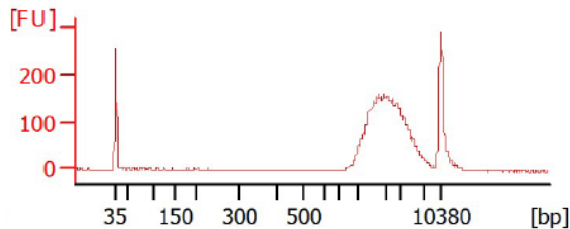
5' heart dil 1:5



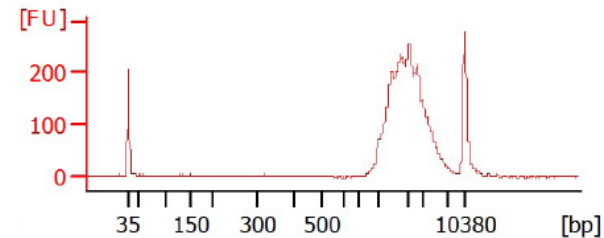
5' liver dil 1:5



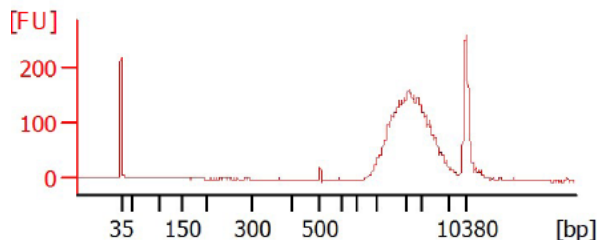
5' lung dil 1:5



5' kidney dil 1:5



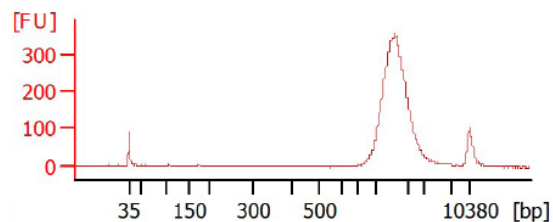
5' spleen dil 1:5



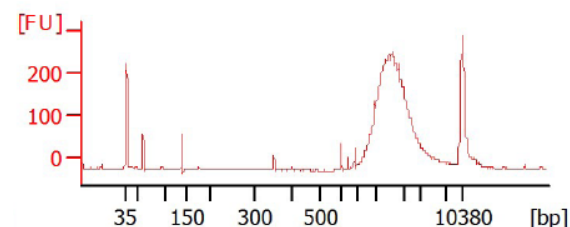
Libraries with average size of
1400-1800 nt
Size selection:
Less than 10% smaller than 650 nt

High Sensitivity Bioanalyzer of 3' RACE Sequencing libraries

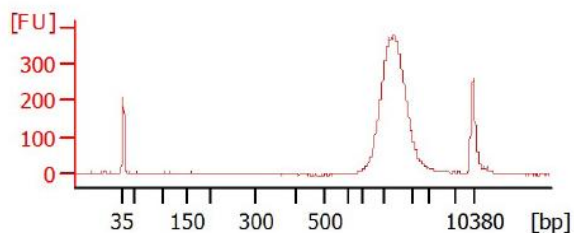
3' Heart purified + 1.5



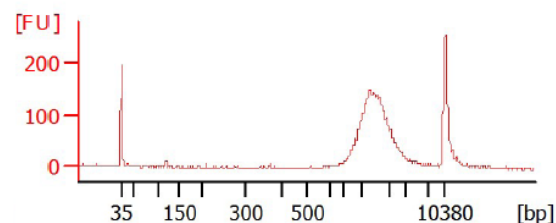
3' liver dil 1:5



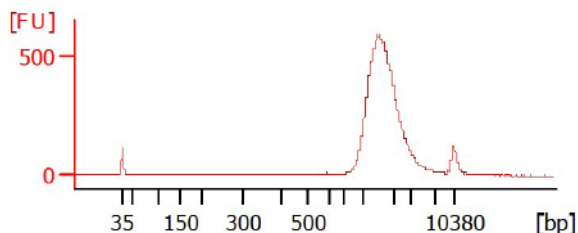
3' lung dil 1:5



3' kidney dil 1:5



3' Spleen 30+45



Libraries with average size of
1400-1800 nt
Size selection:
Less than 10% smaller than 650 nt

Raw Reads stats

File Name	RACE	Tissue	Number of reads	GC Content	Min length/nt	Max Length/nt	Median Length	Mean Quality	Average size - Long reads Q20 – nt distribution / (nt)	
HUSI7RO01	3	Heart	668,609	40.00%	40	1596	652	27.7	1-600	780
HUSI7RO02	3	Spleen	681,557	39.00%	40	1368	630	27.7	1-600	780
HVOF7PM01	3	Liver	402,829	40.00%	40	1190	484	27.3	1-550	720
HVOF7PM02	3	Kidney	456,237	42.00%	40	1086	425	26.1	1-500	620
HVR8TSP01	3	Lung	594,709	40.00%	40	1531	621	27.2	1-580	800
HVR8TSP02	5	Lung	692,302	48.00%	40	1208	689	28.2	1-580	810
HVROOZE01	5	Heart	629,891	49.00%	40	1561	541	27.8	1-550	720
HVROOZE02	5	Spleen	695,740	43.00%	40	1399	575	27.4	1-550	700
HVWRSCX01	5	Liver	741,865	45.00%	40	1491	711	28.5	1-580	810
HVWRSCX02	5	Kidney	675,810	45.00%	40	1591	663	27.8	1-580	800

Example of Reads Length distribution

