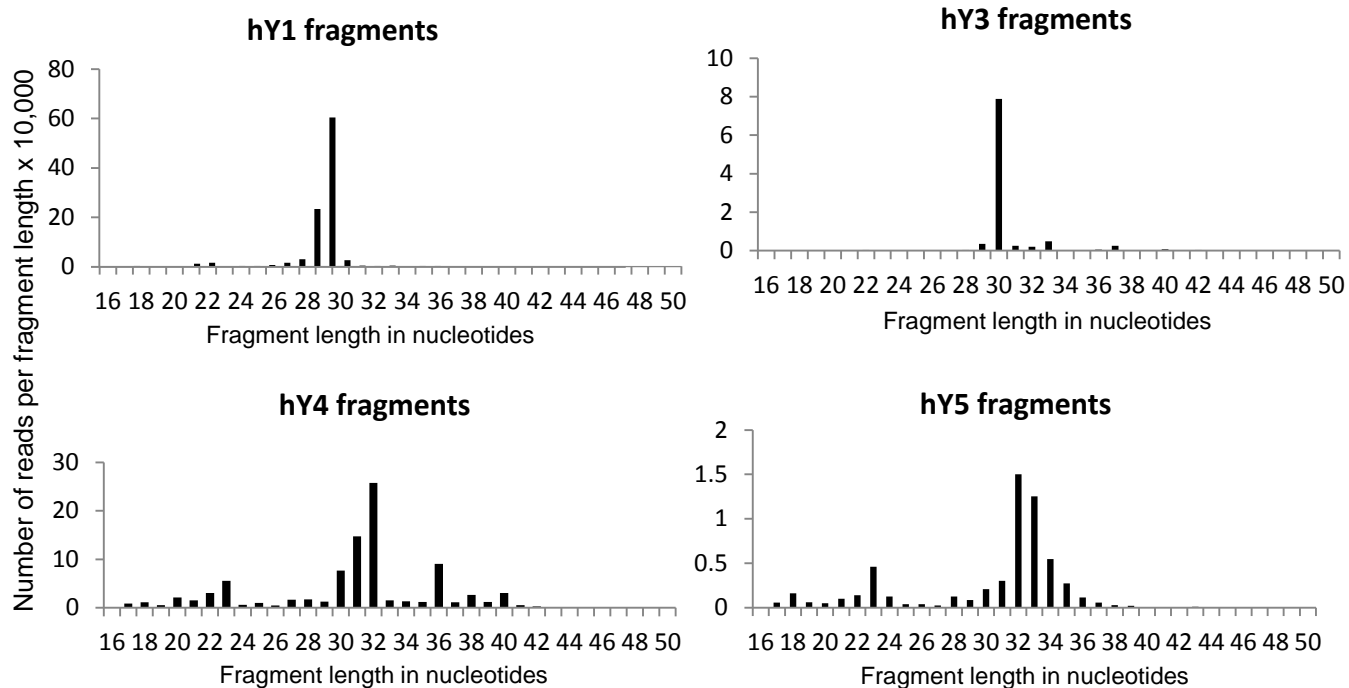
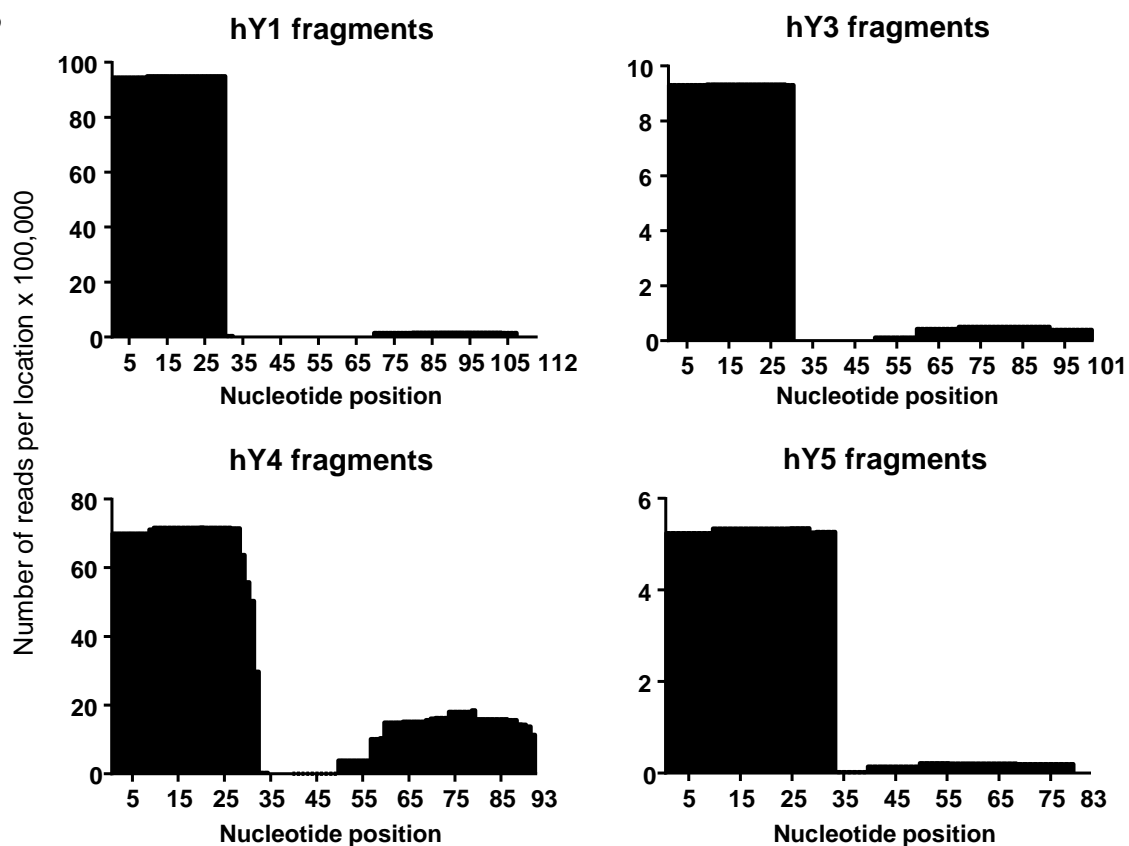


A



B



Supplemental Table 1. Volumes , SE counts by nanosight analysis, and RNA yield for the six sequenced donors.

	Original Semen Volume (mls)	total SE isolated (#)	Count of SE from which RNA was isolated (#)	ng RNA/SE	# of SE for 100 ng of RNA
Donor 1	0.9	1.19E+13	1.19E+13	2.61E-10	3.8E+11
Donor 2	1.5	1.04E+13	9.80E+12	4.16E-11	2.4E+12
Donor 3	3.9	8.13E+12	7.58E+12	1.67E-10	6.0E+11
Donor 4	1.6	1.40E+13	1.40E+13	2.71E-11	3.7E+12
Donor 5	4	6.46E+12	3.03E+12	2.43E-10	4.1E+11
Donor 6	2	8.80E+13	3.41E+13	1.72E-11	5.8E+12

Supplemental Table 2. Pairwise Spearman's correlation coefficients of RNA biotypes in the larger size-fractionated libraries (median 0.96)

Donor	2	3	4	5	6
1	0.96	0.89	0.89	0.96	0.89
2		0.96	0.96	1.00	0.96
3			1.00	0.96	1.00
4				0.96	1.00
5					0.96

Supplemental Table 3. Pairwise Spearman's correlation coefficients of RNA biotypes in the smaller size-fractionated libraries (median 0.46)

Donor	2	3	4	5	6
1	0.71	0.46	0.68	0.46	0.46
2		0.43	0.75	0.61	0.18
3			0.89	0.25	0.61
4				0.43	0.43
5					0.57

Supplemental Table 4. Pairwise Spearman's correlation coefficients of read numbers for 175 common miRNAs in SE (median 0.86)

Donor	2	3	4	5	6
1	0.82	0.86	0.88	0.83	0.83
2		0.80	0.82	0.78	0.81
3			0.88	0.89	0.92
4				0.88	0.91
5					0.88

Supplemental Table 5. Pairwise Spearman's correlation coefficients of tRNA in larger libraries by isoacceptor type (median 0.95)

Donor	2	3	4	5	6
1	0.95	0.95	0.88	0.98	0.95
2		0.93	0.86	0.98	0.93
3			0.93	0.98	1.00
4				0.90	0.93
5					0.98

Supplemental Table 6. Pairwise Spearman's correlation coefficients of tRNA in smaller libraries by isoacceptor type (median 0.93)

Donor	2	3	4	5	6
1	0.48	0.93	0.93	0.90	0.98
2		0.62	0.62	0.67	0.57
3			1.00	0.98	0.98
4				0.98	0.98
5					0.95

Supplemental Table 7. Pairwise Spearman's correlation coefficients of read numbers for larger size-fractionated protein-coding mRNA in SE (median 0.18)

Donor	2	3	4	5	6
1	0.11	0.22	0.21	0.18	0.20
2		0.12	0.11	0.12	0.13
3			0.23	0.17	0.21
4				0.18	0.21
5					0.16

Supplemental Table 8. Pairwise Spearman's correlation coefficients of read numbers for smaller size-fractionated protein-coding mRNA in SE (median 0.20)

Donor	2	3	4	5	6
1	0.19	0.21	0.26	0.19	0.18
2		0.18	0.21	0.19	0.16
3			0.25	0.20	0.20
4				0.23	0.22
5					0.17