

Lab Followup

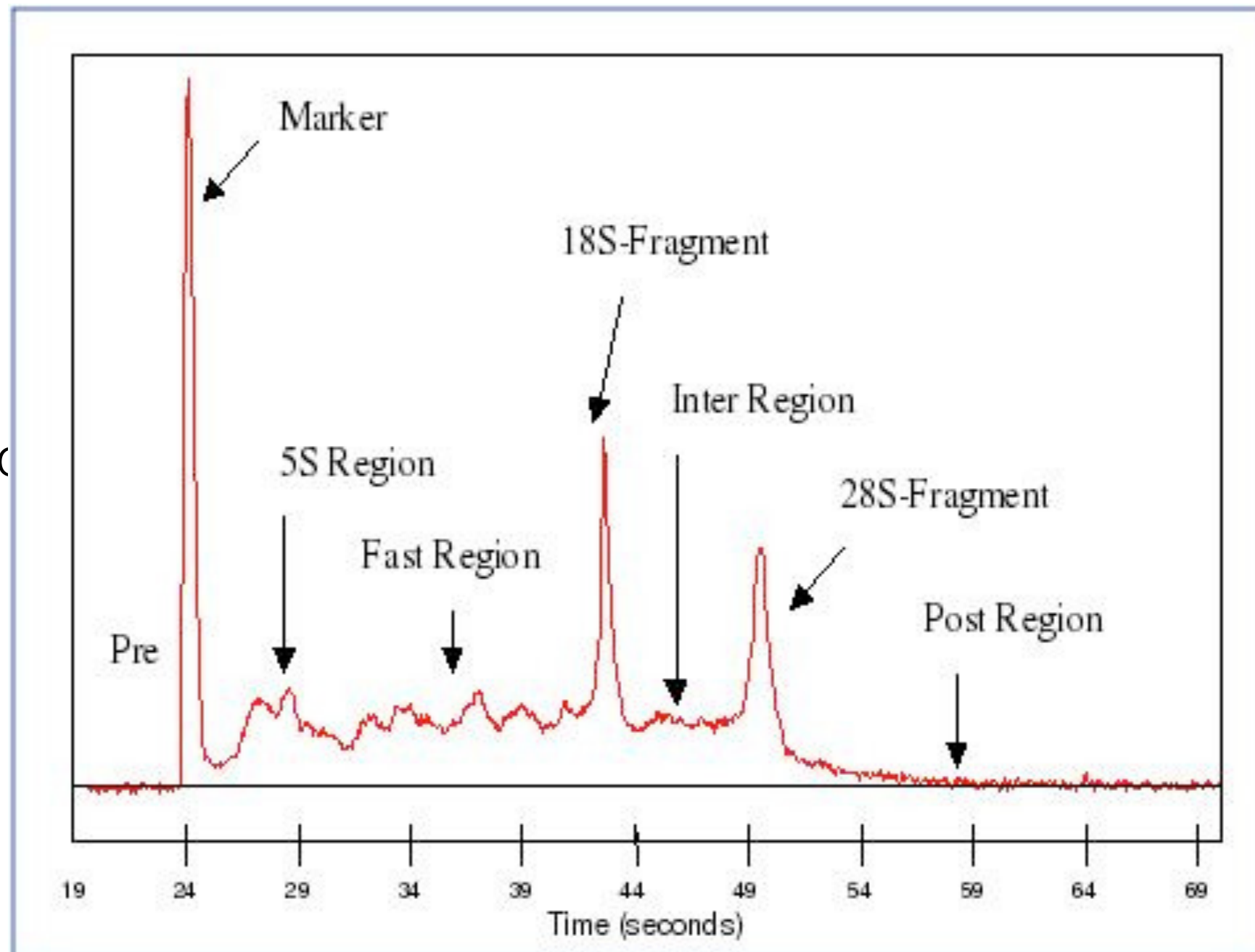
RNA Quality?

- RIN: RNA Integrity Number

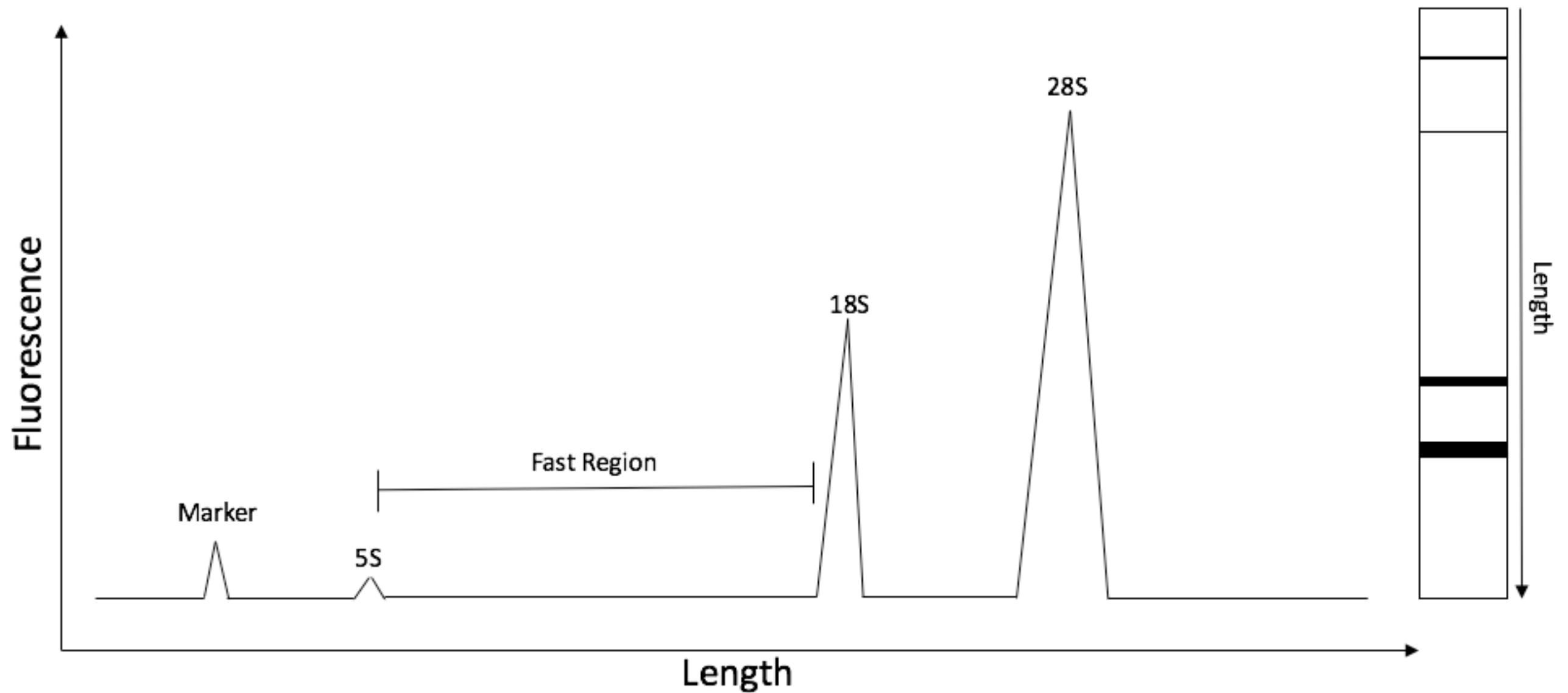


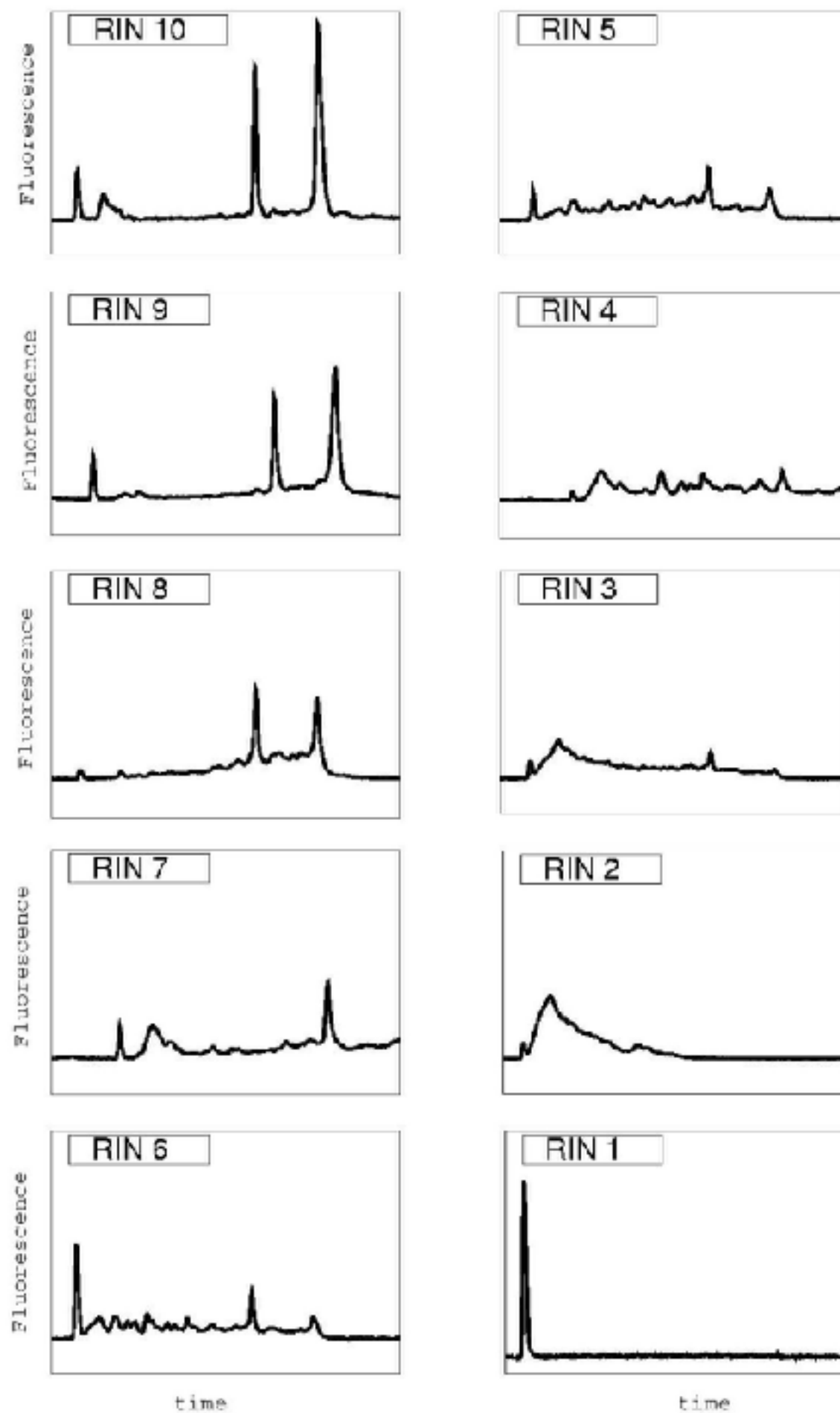
Ratio of 28S to 18S ribosomal RNA

- Ratio of

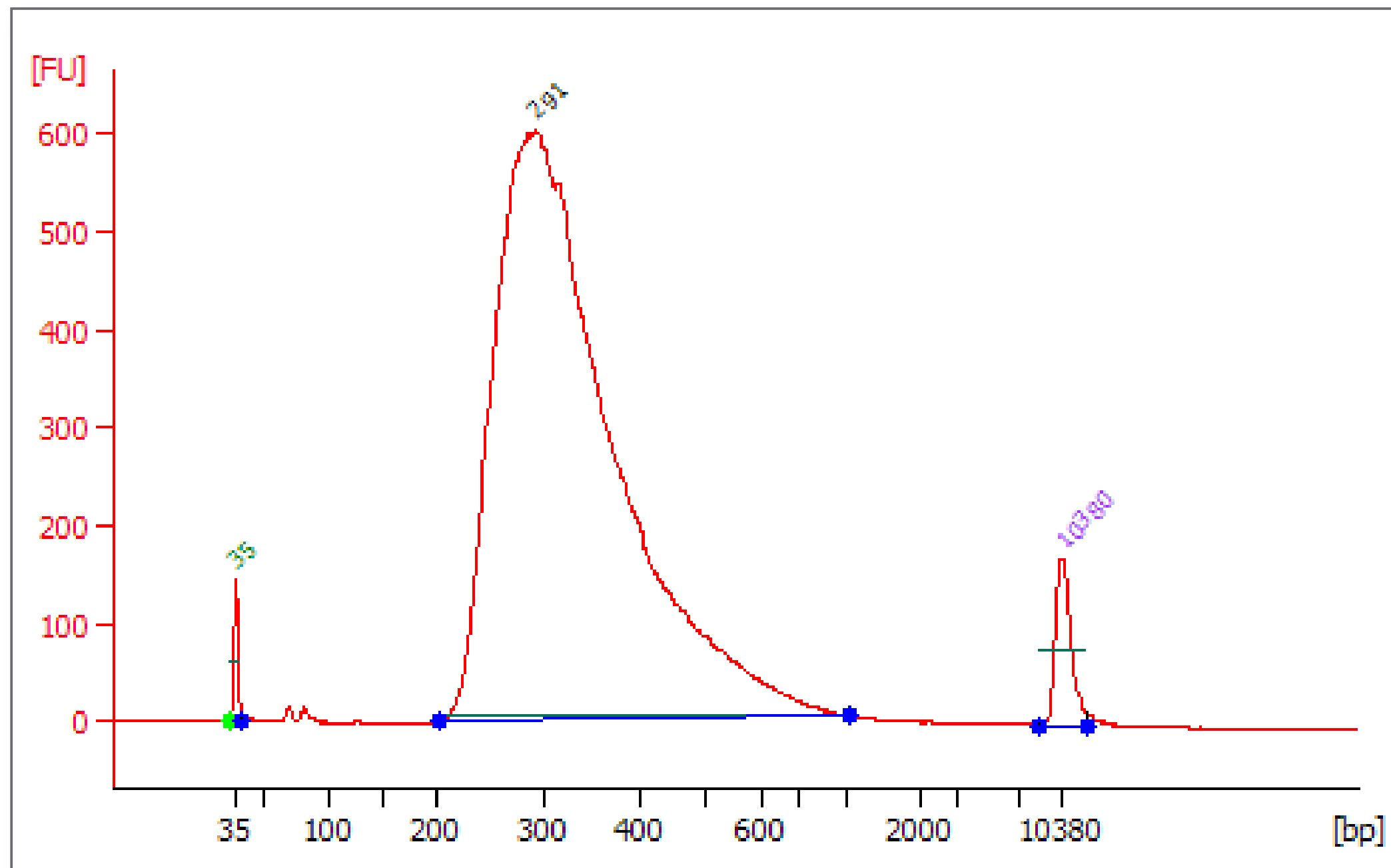


Electropherogram





RNA Library Size Distribution



Assessment of RNA/DNA Quantity and Quality

- Advanced Analytical: Fragment Analyzer
- PerkinElmer: LabChip GX Touch
- Agilent: Bioanalyzer
- Agilent: TapeStation

Barcode Combinations

- Excitation Frequency
 - Red: A and C
 - Green: G and T
- Need both frequencies in each cycle for image registration

Barcode Combinations

GOOD

PRIMER	INDEX SEQUENCE								PRIMER	INDEX SEQUENCE							
P1-A1	T	T	A	C	C	G	A	C	P41-D5	G	A	C	G	T	C	A	T
P2-A2	A	G	T	G	A	C	C	T	P42-D6	C	T	T	A	C	A	G	C
P3-A3	T	C	G	G	A	T	T	C	P43-D7	T	C	C	A	T	T	G	C
P4-A4	C	A	A	G	G	T	A	C	P44-D8	A	G	C	G	A	G	A	T
	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓

BAD

PRIMER	INDEX SEQUENCE								PRIMER	INDEX SEQUENCE							
P9-A9	C	G	C	A	A	C	T	A	P56-E8	T	A	T	G	G	C	A	C
P10-A10	C	G	T	A	T	C	T	C	P57-E9	C	T	C	G	A	A	C	A
P11-A11	G	T	A	C	A	C	C	T	P58-E10	C	A	A	C	T	C	C	A
P12-A12	C	G	G	C	A	T	T	A	P59-E11	G	T	C	A	T	C	G	T
	✓	✗	✓	✗	✓	✓	✓	✓		✓	✓	✓	✓	✓	✗	✓	✓