

A

Repeat subfamily	AluY	AluJ	L1H	L1PA2
read1	1	0	0	0
read2	1	1	0	0
read3	0	0	1	1
read4	0	0	0	1
Total counts	2	1	1	2

B

Repeat subfamily	AluY	AluJ	L1H	L1PA2
read1	1	0	0	0
read2	$\frac{1}{2}$	$\frac{1}{2}$	0	0
read3	0	0	$\frac{1}{2}$	$\frac{1}{2}$
read4	0	0	0	1
Unique counts	1	0	0	1

C

Repeat subfamily	AluY	AluJ	L1H	L1PA2
read1	1	0	0	0
read2	$\frac{1}{2}$	$\frac{1}{2}$	0	0
read3	0	0	$\frac{1}{2}$	$\frac{1}{2}$
read4	0	0	0	1
Fractional counts	$\frac{3}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{2}$

Figure S1