

A		Identities:249/293(85%), Gaps:11/293(3%), Strand: Plus/Minus			
Alu	12	GCCGGGCGCGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGAT	71		
Sample	290	GCCGGGCGCAGTGGCTCAGCCTGTAATCCCAGCACTTTGAGAGGCTGAGGTGAGCAGAA	231		
Alu	72	CAC--GAGGTCAGGAGATCGAGACCGTCCTGGCTAACACGGTGAACCC--GTCTC	124		
Sample	230	CACCTTGATGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAACCCACCCCATCTC	171		
Alu	125	TACTAAAA-TACaaaaaaTTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACT	183		
Sample	170	TACTAAAAATAC--AAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAATCCCAGCTATT	113		
Alu	184	CGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCACTGAGCCGAG	243		
Sample	112	CAGGAGGCTGAGGCTGGAGAATCACTTGA-CCCTGGAGGCGGAGGTTGCAGTGAGCCGAG	54		
Alu	244	ATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTCaaaaa	296		
Sample	53	ATCACACCACTACACTCCAGCTTGGACAACAGAGTGAGACTCCGTCTCAAAAA	1		
B		Identities:251/296(85%), Gaps:3/296(1%), Strand: Plus/Plus			
Alu	11	GGCCGGGCGCGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGA	70		
Sample	1	GGCCGGGCGCGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGACTGAGGTGGGTGGA	60		
Alu	71	TCAC--GAGGTCAGGAGATCGAGACCGTCCTGGCTAACACGGTGAACCCCGTCTCTACT	128		
Sample	61	TTACCTGAGGTGAGGAGTTTGAACCAACCTGGCCGATATGGCGAAACCCATCTCTAAT	120		
Alu	129	-AAATACaaaaaaTTAGCCGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGG	187		
Sample	121	AAAAATACAGAAAAATTAGCCGGGAATGGTGGCAGGTGCCTGTAATCCCAGCTACTCAAG	180		
Alu	188	AGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCACTGAGCCGAGATCG	247		
Sample	181	AGGCTGTGGCAGGAGTATCCCTTGGACCCAGGAGGTGGAGTTGCAGTGAGCCGAGATCA	240		
Alu	248	CGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTCaaaaaaaaaaaaa	303		
Sample	241	CGCCACTGTACTCCAGCCTGGACGATATAGTGAGACTTCACCTCAAAAAAAAAAAAA	296		

Supplementary Figure 2. Alignment of Breakpoint Junction with Alu-Repetitive Elements.

(A) BLAST analysis showed the alignment of the left breakpoint junction sequence with Alu-repetitive elements. (B) The left breakpoint junction sequence aligned with Alu-repetitive elements, highlighting a substantial identity of 85% in both alignments.