Supplementary table S1 – list of all 10 datasets for each mammalian host used in our study, along with accession numbers and sequence lengths for all genomic sequences used.

ERV locus	Mammalian host	Accession number	Length (bp)
ERV3	Homo sapiens	NT 007933.15	10782
	Pan troglodytes	AC 192481.3	10983
	Pongo abelii	AC 200427.2	10931
	Macaca mulatta	AC 210126.3	11260
ERVIPF10H	Homo sapiens	NT 010194.17	5571
	Pan troglodytes	AC 159217.3	5738
	Pongo abelii	AC 207004.4	5831
	Macaca mulatta	AC 200687.3	5719
ERV PB1	Homo sapiens	NT 026437.12	10640
	Pan troglodytes	AC 194649.3	10643
	Pongo abelii	AC 206925.4	10716
	Macaca mulatta	AC 148685.1	10296
	Homo sapiens	NT 007933.15	30917
ERV WE1	Pan troglodytes	AC 183672.2	30302
	Pongo abelii	AC 199834.2	31227
ERV FRD	Homo sapiens	NT 007592.15	9237
	Pan troglodytes	AC 182639.3	9225
	Pongo abelii	AC 200331.2	9223
	Macaca mulatta	AC 193044.4	9231
	Homo sapiens	NT 011295.11	8110
ERVK3	Pan troglodytes	AC 193186.3	8255
	Pongo abelii	AC 206006.3	7898
	Homo sapiens	NT 011295.11	9861
ERVK9	Pan troglodytes	AC 142300.1	9853
	Pongo abelii	AC 211912.3	9797
	Macaca mulatta	AC 197939.3	9980
ERVK2	Homo sapiens	NT 077531.4	9612
	Pan troglodytes	AC 183110.3	9190
ERVK7	Homo sapiens	NT 009237.18	9553
	Pan troglodytes	AC 183110.3	9576
ERVP4	Homo sapiens	NT 010966.14	12267
	Pan troglodytes	AC 146247.3	13041
	Pongo abelii	AC 205931.4	12431
	Macaca mulatta	AC 190302.5	12234