

Table S1: Primers located inside HERV-W elements.

Target	Product (bp)	Polarity	Sequence	Position	Target	Product (bp)	Polarity	Sequence	Position
Intronic HERV-W proviral element					Intronic HERV-W pseudoelement				
CD72 intron 1	654	R	GAACCCCAAGTCAGAGAACACAA	chr9:35630372	SLC16A10 intron 1	883	F	GATATAAACCCAGGCGTTCTAGC	chr6:111565868
TBX18 intron 7	1028	R	CGCCACCATCTTAGGAGCTCT	chr6:85478164	FOXP2 intron 3	1270	R	TTTGGGTCCCTCCATTTGTAT	chr7:113806428
ACOX3 intron 1	404	F	CACCACCCTGGGAGCAAAGA	chr4:8480366	APG5 intron 6	1677	F	CACAGCGGGAAGGACAATGAT	chr6:106790254
ZNF678 intron 1	950	R	ATTGTTCTCGGTGGGTAAG	chr1:225879069	KIAA0423 intron7	962	R	AACGGCTACCTCCTTGGGT	chr14:44558492
ANO3 intron 14	563	R	AACAAAAGTCTTGCCGCCATCT	chr11:26568631	NRCAM intron 2	724	F	CAATGGCTATGCTCTTCGGG	chr7:107772098
Intronic solitary LTR									
chrXq13.1	317	F	GAGCGGCCCACCACTATCTT	chrX:71350446					
chrXq26.2	954	R	CCATGGCTTCTGTTAGAACTGTAA	chrX:131381839					
chr6p22.1	724	F	ACCACCACATGACCAAGATTCT	chr6:29634583					
Intergenic HERV-W proviral element					Intergenic HERV-W pseudoelement				
pro chr12q14.1	1100	R	CCTGCCACCTTCTTGGTAGC	chr12:57531941	pse chr2q24.3	613	R	CGGGGCTTACAACCTAACTCACA	chr2:165222895
pro chr6p12.1	566	R	GCACCTTTAAACACGGGGC	chr6:52887671	pse chr3q23	1048	F	TGAGAGCACAGCGGATATAAAC	chr3:143022933
pro chr7q33	1194	F	GGAACAAAGACCCACCCATA	chr7:133928284	pse chr12p13.31	510	F	GCTGGGAAGATGACTGTACTCA	chr12:7230122
pro chr10q21.2	976	R	GAACAAGGACTGACGCCCA	chr10:62463456	pse chr1q32.3	331	R	ATGCGGGGAGGACAATGA	chr1:210095865
					pse chr6q15	667	R	CAGCAATGGCAATCCCCTTT	chr6:89180697