

Additional File 3

HERV-K(HML-2) proviral loci detected using GAPS

Loci	GAPS	Accession	UCSC Coordinates ^a	Features	References
K115	3'	AY037929	chr8: 7355397-7364859 ¹	Polymorphic for insertion	Turner et al., 2001
12q13	5'	AC122684	chr12: 55727215-55728183 ¹	Polymorphic for insertion, provirus and solo LTR	Belshaw et al., 2005
K104	5' and 3'	AC025757	chr5: 30487114-30496205 ¹		Barbulescu et al., 1999
K106	5'	AC078785	chr3: 112743479-112752282 ¹	Solo LTR versus provirus polymorphism	Barbulescu et al., 1999; Macfarlane and Simmonds, 2004
K107	5' and 3'	AC016577	chr5: 156084717-156093896 ¹	Solo LTR versus provirus polymorphism	Ono et al., 1986; Shin et al., 2013
K109	5'	AL590785	chr 6: 78427019-78436083 ¹	Solo LTR versus provirus polymorphism	Barbulescu et al., 1999; Shin et al., 2013
2q21.1	3'	AC018865	chr2:130719538-130722209 ¹	5'LTR and <i>gag</i> absent	Subramanian et al., 2011
7q22.2	5'	AC079796	chr7: 104388369-104393266 ¹	3'LTR absent	Buzdin et al., 2007
4q32.1	5'	AC115222	chr4: 161579938-161582360 ¹	3'LTR absent	Buzdin et al., 2007
19p12c	3'	AC008996	chr19: 22414379-22414383 ¹	5'LTR absent	This Study
				Polymorphic for insertion in human	Contreras-Galindo et al., 2012
Pan8q	3'		chr8:112660047-112670551 ²	<i>Gag</i> ORF disrupted	This Study
Pan2Ap	3'		chr2a:9161883-9162878 ²	Chimp specific	This Study
				Chimp specific	
				Solo LTR versus provirus polymorphism	
4q32.3	5'x 2	AC106872	chr4:165916840-161582360 ¹	In human, chimp, gorilla and orangutan	Hughes and Coffin, 2001
K110	3'	AL121985	chr1:160660575-160669806 ¹	In human chimp and gorilla	Ono et al., 1986
1p31.1a	5'	AL606535	chr1:73594981-73595948 ¹	In human, chimp and gorilla.	This Study
			chr1:73777994-73787147 ²		
			chr1: 75343534-75344061 ³	Solo LTR versus provirus polymorphism in humans	
			chr1: 156,109,585 ⁴		