

**Table S2.** Summary of assignment of lesion and non-malignant skin tissue derived cDNA sequences to specific HERV-W loci\*.

Chr. band	HGNC symbol, aliases	tr. in PBMC	Location amplicon in hg18	total cDNAs		Patient 1		Patient 6		Patient 5		Patient 12	
				Lesion	Non-malignant	Lesion	Non-malignant	Lesion	Non-malignant	Lesion	Non-malignant	Lesion	Non-malignant
5q21.3	–		chr5:107939374-107939968	0	9	0	9	0	0	0	0	0	0
6q21	–	Y	chr6:106788519-106789158	0.00	7.69	0.00	23.68	0.00	0.00	0.00	0.00	0.00	0.00
7q21.2	ERVW-1 ERVWE1, <i>Syncytin-1</i>	Y	chr7:91936835-91937430	43	26	20	0	13	9	0	11	10	6
11p14.3	–		chr7:91936835-91937430	37.07	22.22	64.52	0.00	37.14	32.14	0.00	37.93	45.45	27.27
12q13.13	–		chr11:22291012-22291605	45	37	6	0	9	16	28	14	2	7
15q21.3	ERVW-4, C187-23	Y	chr15:53385581-53386171	38.79	31.62	19.35	0.00	25.71	57.14	100.00	48.28	9.09	31.82
17q12	–	Y	chr17:32765922-32766547	2	7	0	7	0	0	0	0	2	0
Xq22.3	ERVW-2, ERVWE2	Y	chrX:106183224-106183878	1.72	5.98	0.00	18.42	0.00	0.00	0.00	0.00	9.09	0.00
				1	0	0	0	0	0	0	0	1	0
				0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.55	0.00
				6	7	0	0	6	2	0	4	0	1
				5.17	5.98	0.00	0.00	17.14	7.14	0.00	13.79	0.00	4.55
				18	31	5	22	6	1	0	0	7	8
				15.52	26.50	16.13	57.89	17.14	3.57	0.00	0.00	31.82	36.36
				1	0	0	0	1	0	0	0	0	0
				0.86	0.00	0.00	0.00	2.86	0.00	0.00	0.00	0.00	0.00
				<b>116</b>	<b>117</b>	<b>31</b>	<b>38</b>	<b>35</b>	<b>28</b>	<b>28</b>	<b>29</b>	<b>22</b>	<b>22</b>

\* Chr. band: chromosomal location of the transcribed HERV-W locus

HGNC symbol, aliases: Human Gene Nomenclature Committee approved HERV-W locus symbol if HERV locus has been identified as transcribed before and has been submitted as such to HGNC.

tr. in PBMC: "Y" indicates that that HERV-W locus has previously been identified as transcribed in PBMC [59].

Location amplicon in hg18\*: nucleotide position of RT-PCR amplicon on the respective human chromosome based on the hg18/March 2006 human reference sequence (NCBI Build 36.1).

total cDNAs: total number of cDNAs generated and assigned to the various HERV-W loci for "lesion tissue" and "non-malignant tissue". Numbers are also given in percentages based on the total number of analysed cDNAs (bottom of row) each. The following columns further detail results for the four different patients as described for "total cDNAs"