

**Table S1.** Comparison of HERV core transcription pattern in human tissues.

<b>HERV group</b>	<b>HERV subgroup</b>	<b>Skin</b>	<b>Urothelium [77]</b>	<b>Brain [60]</b>	<b>Mamma [63]</b>	<b>Kidney [39]</b>
<b>HERV-FRD</b>	Seq46	-	-	-	+	-
<b>HERV-E</b>	HERV-E4-1	+	+	+	+	+
	Seq32	-	-	-	-	+
<b>HERV-F</b>	HERV-Fb	+	-	+	+	-
<b>HERV-Rb</b>	HERV-Rb	-	+	-	-	-
<b>HERV-W</b>	HERV-W	+	-	-	+	+
<b>ERV9</b>	Seq63	+	-	-	-	+
	ERV9	+	+	+	+	+
	Seq59	+	-	+	+	+
<b>HERV-K(HML-2)</b>	HERV-K10	-	-	-	+	+
	HERV-K (HML-2.HOM)	-	-	-	+	+
	HERV-K(HP1)	-	-	+	+	+
	HERV-K(D1.2)	-	-	+	+	+
<b>HERV-K(HML-3)</b>	Seq26	-	-	-	-	+
	HERV-K(HML-3)	-	-	-	+	+
<b>HERV-K(HML-4)</b>	HERV-K-T47D	+	+	+	+	-
	Seq10	-	-	+	+	-
<b>HERV-K(HML-6)</b>	HERV-K(HML-6)	-	-	+	+	+
	Seq38	-	-	+	+	-
	Seq56	-	-	-	+	-
<b>HERV-K(HML-8)</b>	NMWW3	-	+	-	-	+
<b>HERV-K(HML-9)</b>	NMWW9	-	-	+	-	-
<b>HERV-K(HML-10)</b>	HERV-KC4	-	+	+	-	-

“+” indicates transcription and “-” no transcription.