

1 Supplementary data to the Human Endogenous Retrovirus database (HERVd)

This example shows outputs of the search for repetitive elements in a small region of the human chromosome 12. Part 1.1. brings the numerical description of the repetitive elements found in this region. Part 1.2. is the graphical representation of the elements assembled into one member of the HERV-H family.

1.1 Part of unprocessed RepeatMasker output:

SW score	perc div.	perc del.	perc ins.	query sequence	position in query			matching repeat	repeat class/family	position in repeat			ID
					begin	end	(left)			begin	end	(left)	
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1003	20.0	0.0	1.6	ctg18706	360341	360525	(124660)	+ HERVL	LTR/ERV1	3321	3502	(2262)	827
864	23.4	0.0	1.2	ctg18706	360928	361094	(124091)	+ MER41D	LTR/ERV1	393	557	(0)	829
589	18.2	1.0	0.0	ctg18706	361099	361197	(123988)	+ HERVL	LTR/ERV1	4611	4610	(1164)	827
899	16.2	1.4	0.0	ctg18706	361372	361513	(123672)	C MER4E	LTR/ERV1	(0)	779	636	831
1835	8.8	0.0	1.7	ctg18706	361514	361752	(123433)	C AluSg1	SINE/Alu	(16)	293	59	832
3465	6.0	0.4	1.1	ctg18706	361755	362205	(122980)	C LTR7	LTR/ERV1	(2)	448	1	877
8294	8.4	0.7	1.0	ctg18706	362206	363322	(121863)	C HERVH	LTR/ERV1	(0)	7713	6600	877
511	12.5	1.2	0.0	ctg18706	363323	363402	(121783)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
521	11.2	1.2	0.0	ctg18706	363403	363482	(121703)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
510	14.8	0.0	0.0	ctg18706	363483	363563	(121622)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
511	16.1	0.0	0.0	ctg18706	363564	363644	(121541)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
512	14.8	0.0	0.0	ctg18706	363645	363725	(121460)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
479	15.0	1.2	0.0	ctg18706	363726	363805	(121380)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
547	12.3	0.0	0.0	ctg18706	363806	363886	(121299)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
527	14.8	0.0	0.0	ctg18706	363887	363967	(121218)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
443	17.5	1.2	0.0	ctg18706	363968	364047	(121138)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
518	13.6	0.0	0.0	ctg18706	364048	364128	(121057)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
503	16.1	0.0	0.0	ctg18706	364129	364209	(120976)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
506	16.1	0.0	0.0	ctg18706	364210	364290	(120895)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
516	13.6	0.0	0.0	ctg18706	364291	364371	(120814)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
434	18.8	1.2	0.0	ctg18706	364372	364451	(120734)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
496	16.1	0.0	0.0	ctg18706	364452	364532	(120653)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
520	14.8	0.0	0.0	ctg18706	364533	364613	(120572)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
517	13.6	0.0	0.0	ctg18706	364614	364694	(120491)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
411	19.2	1.3	0.0	ctg18706	364697	364774	(120411)	C HERVH	LTR/ERV1	(1035)	6678	6600	877
527	13.6	0.0	0.0	ctg18706	364775	364855	(120330)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
526	13.6	0.0	0.0	ctg18706	364856	364936	(120249)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
526	13.6	0.0	0.0	ctg18706	364937	365017	(120168)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
517	13.6	0.0	0.0	ctg18706	365018	365098	(120087)	C HERVH	LTR/ERV1	(1033)	6680	6600	877
411	19.2	1.3	0.0	ctg18706	365101	365178	(120007)	C HERVH	LTR/ERV1	(1035)	6678	6600	877
2895	10.4	0.9	0.2	ctg18706	365179	365619	(119566)	C HERVH	LTR/ERV1	(1033)	6680	6237	877 *
15432	16.7	1.7	2.9	ctg18706	365599	365738	(119447)	C HERVH	LTR/ERV1	(2372)	4157	4017	877
2421	8.4	0.3	0.0	ctg18706	365739	366049	(119136)	+ AluSp	SINE/Alu	2	313	(0)	873
15432	16.7	1.7	2.9	ctg18706	366050	370282	(114903)	C HERVH	LTR/ERV1	(2512)	4017	1	877
3393	7.6	0.0	2.4	ctg18706	370285	370743	(114442)	C LTR7	LTR/ERV1	(2)	448	1	877
466	9.7	0.0	0.0	ctg18706	370744	370805	(114380)	C Alu	SINE/Alu	(255)	63	2	878
2378	16.5	9.6	6.3	ctg18706	370830	370951	(114234)	C MER4D	LTR/ERV1	(247)	625	509	879
1477	15.1	9.7	2.1	ctg18706	370952	371230	(113955)	C AluJb	SINE/Alu	(2)	300	1	880
2378	16.5	9.6	6.3	ctg18706	371231	371712	(113473)	C MER4D	LTR/ERV1	(363)	509	1	879
195	18.6	0.0	0.0	ctg18706	371738	371780	(113405)	+ (TA)n	Simple_repeat	1	43	(0)	881
629	16.7	12.5	0.0	ctg18706	371805	371924	(113261)	C AluJc	SINE/Alu	(175)	137	3	882
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1.2 Graphical representation of one member of the HERV-H family

Corresponding parts of the chromosome sequence and the family consensus sequence are connected. The height of boxes on the chromosome shows Swiss-Waterman score (SW). Blue and orange colors are used for internal and LTR sequences, respectively. Amplification of a small region, several deletions and insertions of unrelated elements are well recognized. The unrelated repetitive elements found by RepetMasker are in red.

