



Molecular characteristics of Human Endogenous Retrovirus type-W in schizophrenia and bipolar disorder.

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SUPPLEMENTARY INFORMATION

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I. Complementary Statistical analyses:

Table S1: HERV-W RNA relative expression of the MSRV subtype, all controls

Variables	BP,N=91	SZ,N=45	Controls,N=73	P for all	P BP vs TEM	P BP vs SZ	P SZ vs TEM
	Mean(SD)			P value Kruskall Wallis/Mann Whitney			
RNA	1.62 (4.6)	0.84 (0.5)	0.65 (0.6)	<0.0001	<0.0001	0.01	0.012
DNA	0.61(0.3)	0.55(0.3)	0.77(0.3)	0.0005	0.0016	0.575	0.0003

Table S2: HERV-W relative expression of the MSRV subtype,
Controls with negative CRP (C-)

Variables	BP,N=91	SZ,N=45	Controls,N=46	P for all	P BP vs TEM	P BP vs SZ	P SZ vs TEM
	Mean(SD)			P value Kruskall Wallis/Mann Whitney			
RNA	1.62 (4.6)	0.84 (0.5)	0.62 (0.6)	<0.0001	<0.0001	0.01	0.007
DNA	0.60(0.3)	0.55(0.3)	0.77(0.3)	0.0015	0.003	0.575	0.0006

Table S3: HERV_W RNA relative expression and DNA copy numbers of the MSRV subtype.
Statistical analyses excluding Bipolar Disorder Patients treated with Valproate.

Variables	BP,N=68	SZ,N=45	Controls,N=73	P for all	P BP vs TEM	P BP vs SZ	P SZ vs TEM
	Mean(SD)			P value Kruskall Wallis/Mann Whitney			
RNA	1.71 (5.3)	0.84 (0.5)	0.65 (0.6)	<0.0001	<0.0001	0.087	0.007
DNA	0.61(0.3)	0.55(0.3)	0.77(0.3)	0.0009	0.006	0.468	0.0003

II. Sequence analyses

Figure S1: Sequence alignments with the HERV-W/MSRV-env specific Probe

Figure S1A: HC RNA

MSRVqPCR p	10	20
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
AAGAAGTTTACCTGGGGTCTACGTC		
1. RNA-H12_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
2. RNA-H12_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
3. RNA-H12_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
4. RNA-H12_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
5. RNA-H12_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
6. RNA-H12_6 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
7. RNA-H12_8 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
8. RNA-H12_9 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
9. RNA-H16_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
10. RNA-H16_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
11. RNA-H16_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
12. RNA-H16_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
13. RNA-H16_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
14. RNA-H1_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
15. RNA-H1_1 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
16. RNA-H1_2 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
17. RNA-H1_3 [104]	TTCTTCAAATGGAGCCCCAGATGCAG>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCAG	
18. RNA-H12_1 [100]	TTCTTCAAATGGAGCCCCAGATGCA>	
MSRVqPCR p	TTCTTCAAATGGAGCCCCAGATGCA	

19. RNA-H16_ 40 50
[100] TTCTTCAAATGGANCCCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

20. RNA-H1_8 40 50
[100] TTCTTCAAATGGAGCCCCAGATGCA>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCA

21. RNA-H12_ 130 120 110
[98] <TTCTTCAAATGGAAACCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

22. RNA-H12_ 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

23. RNA-H12_ 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

24. RNA-H16_ 130 120 110
[98] <TTCTTCAAATGGAAACCCAGATGCAG
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

25. RNA-H16_ 130 120 110
[98] <TTCTTCAAATGGAAACCCAGATGCAG
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

26. RNA-H16_ 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

27. RNA-H16_ 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

28. RNA-H1_1 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

29. RNA-H1_1 130 120 110
[98] <TTCTTCAAATGGAAACCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

30. RNA-H1_1 130 120 110
[98] <TTCTTCAAATGGAAACCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

31. RNA-H1_7 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

32. RNA-H16_ 130 120 110
[92] <TTCTTCAAACGGAACCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

33. RNA-H12_ 320 330
[88] TTCTTCAAATGGAGCCCCAGA--CAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

Figure S1B: HC DNA

MSRVqPCR p 10 20
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG
 AAGAAGTTACCTCGGGGCTACGTC

1. DNA-H12_1 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

2. DNA-H12_5 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

3. DNA-H16_1 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

4. DNA-H16_1 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

5. DNA-H16_1 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

6. DNA-H16_140 50 60
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

7. DNA-H16_5 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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8. DNA-H16_8 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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9. DNA-H1_13 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

10. DNA-H1_1 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

11. DNA-H12_ 130 120 110
 [98] <TTCTTCAAATGGAACCCCAGATGCAG
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

12. DNA-H12_ 40 50
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16. DNA-H16_ 40 50
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17. DNA-H1_1 130 120 110
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18. DNA-H1_7 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

19. DNA-H1_1 40 50
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

31. DNA-H16_ 40 50
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36. DNA-H1_9 130 120 110
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

Figure S1C: BD RNA

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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG
 AAGAAGTTTACCTCGGGGTCTACGTC

1. RNA70_10. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

2. RNA70_13. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

3. RNA70_15. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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4. RNA70_16. 40 50
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6. RNA71_6.n 40 50
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7. RNA71_9.n 40 50
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15. RNA66_2. 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

16. RNA66_5. 130 120 110
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19. RNA66_8. 40 50
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21. RNA70_12 40 50
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 MSRVqPCR p TTCTCAAATGGAGCCCCAGATGCAG

22. RNA70_14 40 50
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 MSRVqPCR p TTCTCAAATGGAGCCCCAGATGCAG

23. RNA70_4. 320 330
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25. RNA70_6. 40 50
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26. RNA70_7. 40 50
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 MSRVqPCR p TTCTCAAATGGAGCCCCAGATGCAG

27. RNA70_9. 130 120 110
 [98] <TTCTCAAATGGAACCCCAGATGCAG
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 MSRVqPCR p TTCTCAAATGGAGCCCCAGATGCAG

28. RNA71_12 40 50 60
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 MSRVqPCR p TTCTCAAATGGAGCCCCAGATGCAG

29. RNA71_5. 40 50
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 MSRVqPCR p TTCTCAAATGGAGCCCCAGATGCAG

30. RNA66_13 40 50
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31. RNA66_3. 40 50
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32. RNA66_9. 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

35. RNA71_8. 130 120 110
 [92] <TTCTTCAAGTGGAACCCCAGATGCAG
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

36. RNA70_11 320 330
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

37. RNA70_2. 40 50
 [88] TTCTTCAAATGGAGCCCCAGA--CAG
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

38. RNA70_8. 320 330
 [88] TTCTTCAAATGGAGCCCCAGA--CAG
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

39. RNA71_4.130 120 110
 [88] <TTCTTCAAATGGAGCCCCAGA--CAG
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

Figure S1D: BD DNA

MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG
 10 20
 AAGAAGTTTACCTCGGGGTCTACGTC

1. DNA66_14. 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
 ||||||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

2. DNA66_4.n 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

3. DNA66_7.n 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
 ||||||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

4. DNA66_9.n 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

5. DNA70_9.n 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
 ||||||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

6. DNA66_5.n 40 50
[98] TTCTTCAAATGGAGCCCCAGATGCAG>
 ||||||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

7. DNA70_11. 130 120 110
[98] <TTCTTCAAATGGAACCCCAGATGCAG
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

8. DNA70_12. 40 50
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

9. DNA70_5.n 40 50
[98] TTCTTCAAATGGAGCCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

10. DNA71_12 40 50
[98] TTCTTCAAATGGAACCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

11. DNA66_8. 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
 ||||||| ||||||| |||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

12. DNA70_2. 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
 ||||||| ||||||| |||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

13. DNA71_15 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
 ||||||| ||||||| |||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

14. DNA71_4. 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
 ||||||| ||||||| |||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

15. DNA71_6. 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

16. DNA66_11 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
 ||||| ||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

17. DNA66_13 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
 ||||| ||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

18. DNA66_15 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
 ||||| ||| ||||||| |||||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

19. DNA70_1. 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

20. DNA70_10. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

21. DNA70_13 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

22. DNA70_16 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

23. DNA70_4.130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

24. DNA70_8. 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

25. DNA71_10 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

26. DNA71_11 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

27. DNA71_13 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

28. DNA71_14 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

29. DNA71_2. 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

30. DNA71_3. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

31. DNA71_5. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

32. DNA71_7. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

33. DNA71_8. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

Figure S1E: SZ RNA

MSRVqPCR p 10 20
 TTCTTCAAATGGAGCCCCAGATGCAG
 AAGAAGTTTACCTCGGGTCTACGTC

1. RNA11_10. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

2. RNA11_11. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

3. RNA11_12. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

4. RNA11_14. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

5. RNA11_15. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

6. RNA11_2.n 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

7. RNA11_3.n 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

8. RNA11_6.n 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

9. RNA11_8.n 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

10. RNA11_9. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

11. RNA16_10 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

12. RNA16_2. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

13. RNA16_3. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

14. RNA16_9. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

15. RNA23_12 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

16. RNA23_16 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

17. RNA23_2. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

18. RNA23_4. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

19. RNA23_6. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

20. RNA23_9. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

21. RNA32_10 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

22. RNA32_11 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

23. RNA32_12 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

24. RNA32_13 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
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25. RNA32_14 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

26. RNA32_16 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

27. RNA32_3. 40 50
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28. RNA32_4. 130 120 110
 [104] <TTCTTCAAATGGAGCCCCAGATGCAG
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29. RNA32_5. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
 |||||||
 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

30. RNA32_7. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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31. RNA32_8. 40 50
 [104] TTCTTCAAATGGAGCCCCAGATGCAG>
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32. RNA32_9. 40 50
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33. RNA23_10 40 50
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34. RNA11_16 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

35. RNA11_4. 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

36. RNA23_3. 40 50
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 MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

37. RNA23_5. 40 50
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38. RNA16_11 40 50
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Figure S1F: SZ DNA

MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG
AAGAACCTTCAGCTGGGTCTACGTC

1. DNA16_1.n 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

2. DNA23_11. 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

3. DNA23_15. 40 50
[104] TTCTTCAAATGGAGCCCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

4. DNA16_11. 130 120 110
[98] <TTCTTCAAATGGAGCCCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

5. DNA23_9.n 40 50
[98] TTCTTCAAATGGAAACCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

6. DNA32_1.n 40 50
[98] TTCTTCAAATGGAGCCCCAGAGGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

7. DNA11_2.n 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

8. DNA11_3.n 40 50
[96] TTCTTCAAATGGAGCCCCAGATG-AG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

9. DNA11_6.n 130 120 110
[96] <TTCTTCAAATGGAGCCCCAGATG-AG
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

10. DNA-VIP3 40 50
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

11. DNA11_1. 40 50
[92] TTCTTCAAATTGAGCCTCAGATGCAG>
|||||
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12. DNA11_12 40 50
[92] TTCTTCAAATTGAGCCTCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

13. DNA11_14 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG
|||||
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14. DNA11_15 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

15. DNA11_16 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

16. DNA11_7. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

17. DNA11_8. 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

18. DNA16_8. 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG
|||||
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

19. DNA23_14 40 50
[92] TTCTTCAAATTGAGCCTCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

20. DNA23_2_ 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

21. DNA23_4_ 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

22. DNA23_8_ 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

23. DNA32_12 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

24. DNA32_15 130 120 110
[92] <TTCTTAAATTGGAGCCCCAGATGCAG
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MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

25. DNA32_2_ 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

26. DNA32_3_ 40 50
[92] TTCTTCAAATTGAGCCTCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

27. DNA32_7_ 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

28. DNA32_8_ 40 50
[92] TTCTTAAATTGGAGCCCCAGATGCAG>
| | | | | | | | | | | | | | | | | | | | | | | | | |
MSRVqPCR p TTCTTCAAATGGAGCCCCAGATGCAG

Figure S2: Phylogenetic tree representation of aligned clones with related HERV-W and distant HERV-K env gene sequences:

Figure S2A: RNA and DNA clones from BD

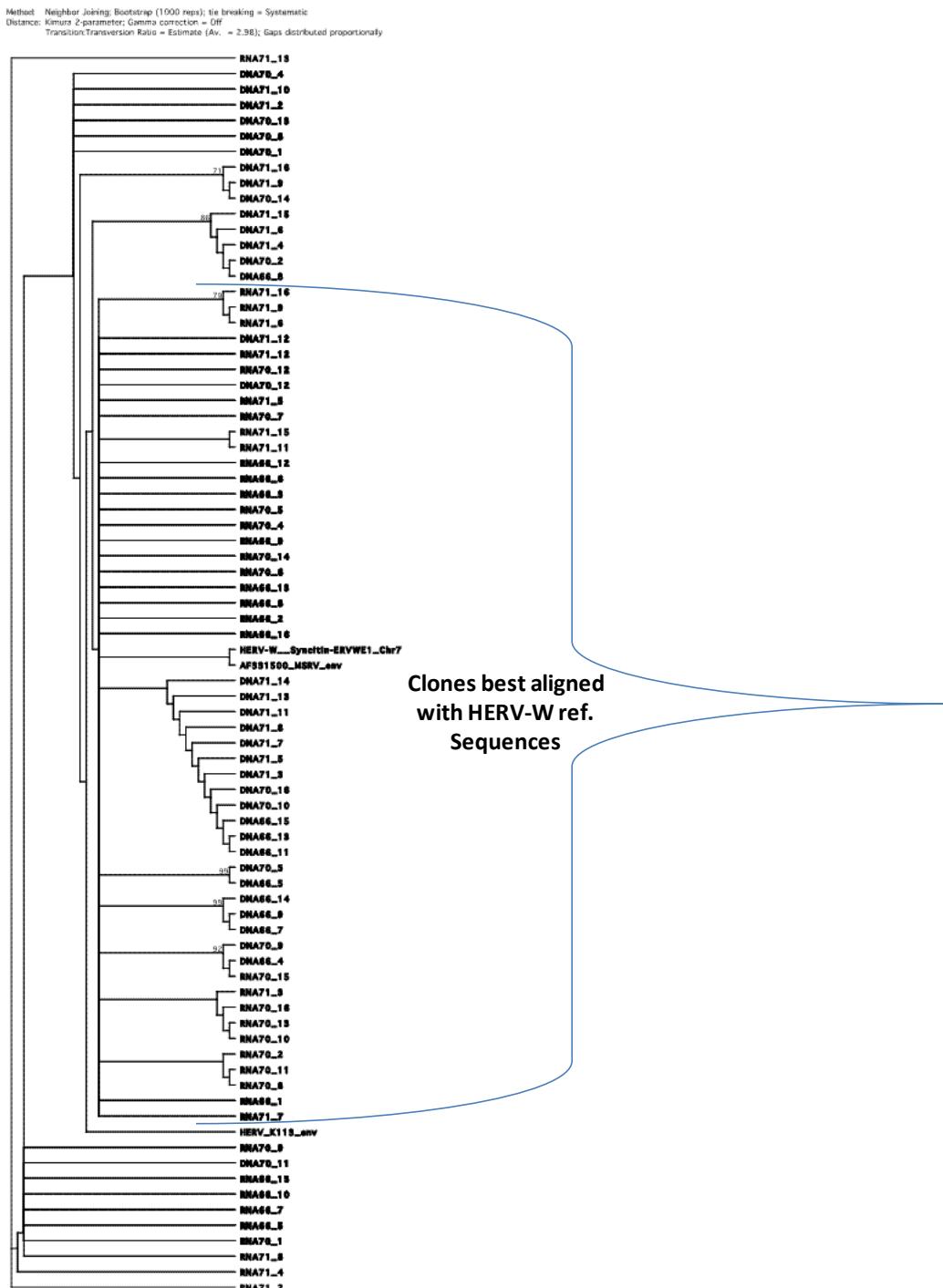


Figure S2B: RNA and DNA clones from SZ

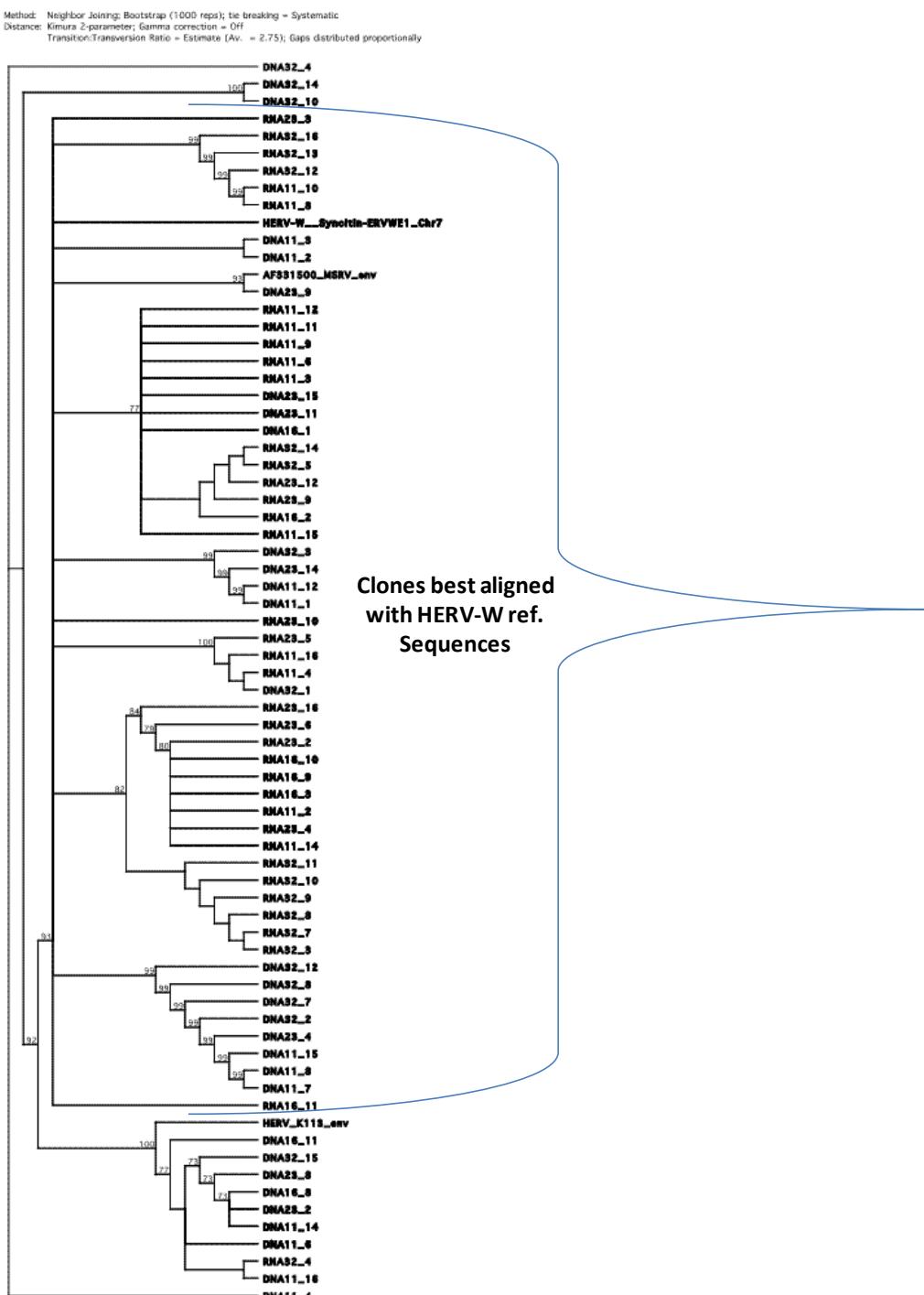


Figure S2C: RNA and DNA clones from HC

