

SUPPLEMENTARY INFORMATION

Biochemical analysis of the complex between the tetrameric export adapter protein Rec of HERV-K/HML-2 and the responsive RNA element RcRE pck30

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Supplementary Table 1 Oligonucleotides used in this study.

Oligonucleotide	Sequence ^a	Application
Fwd_pck30uLTR21	gcatctgaattctaatacgactcactataggacagatgcttgaaggcag	forward primer for PCR of RcRE pck30
Rev_pck30uLTR21	gcatcttctagacacataaacatctcaatgc	reverse primer for PCR of RcRE pck30
Fwd_M1	P- actgcggatcgccgag	forward primer for insertion of mutation in AAGG motif in M1
Rev_M1	ttttgtccctgggtacttgagattagg	reverse primer for insertion of mutation in AAGG motif in M1
Fwd_M2	P-acctctgcctagttcagccaggtattg	forward primer for insertion of mutation in GGAA motif in M2
Rev_M2	ccctgcggccttccg	reverse primer for insertion of mutation in GGAA motif in M2
Fwd_M3	P- ggtattgtccaccgtttctcccc	forward primer for insertion of mutation in AAGG motif in M3
Rev_M3	tggctttcctaggcagaggtcc	reverse primer for insertion of mutation in AAGG motif in M3
Fwd_M4	P-ctcgtgggaccggaagacc	forward primer for insertion of mutation in AAGG motif in M4
Rev_M4	Gccatatttcagactttcacatgggg	reverse primer for insertion of mutation in AAGG motif in M4
Fwd_M5	P-tgagacaagagctaggcatctgtctcc	forward primer for insertion of mutation in GGAA motif in M5
Rev_M5	actgcaagaggcattccttctc	reverse primer for insertion of mutation in GGAA motif in M5
Fwd_RcRE pck30 + SacII	caacaaccgagcagatgcttgaaggcagc	forward primer for amplification of mutated RcRE pck30
Rev_RcRE pck30 + XhoI	Catctactcgagcacataaacatctcaatgctttac	reverse primer for amplification of mutated RcRE pck30
Hp_allkIRNAs(5-3)	gcatctgaattctaatacgactcactataggctgtacagcttgtc	forward oligonucleotide for fill in PCR for hairpin_GGAA, hairpin_GGA, hairpin_AAGG, hairpin_purine rich, hairpin_pyrimidine rich
Hp_GGAAloop (3-5)	gcatcttctagagatcactactgctcggccttctcgacaagctgtacgacctata	reverse oligonucleotide for hairpin_GGAA
Hp_GGAAloop(3-5)	gcatcttctagagatcactactgctcggccttctcgacaagctgtacgacctata	reverse oligonucleotide for hairpin_GGA
Hp_AAGGloop(3-5)	gcatcttctagagatcactactgctcggccttctcgacaagctgtacgacctata	reverse oligonucleotide for hairpin_AAGG
Hp_purine rich(3-5)	gcatcttctagagatcactactgctcggccttctcgacaagctgtacgacctata	reverse oligonucleotide for hairpin_purine rich
Hp_pyrimidine rich (3-5)	gcatcttctagagatcactactgctcggccttctcgacaagctgtacgacctata	reverse oligonucleotide for hairpin_pyrimidine rich
middle-primer_SHAPE_pck30uLTR21	Cy5-cctctgtctcaactgcaag	primer for SHAPE binding in the middle of the structure
3'-primer_SHAPE_pck30uLTR21	Cy5-cataaacatctcaatgctttac	primer for SHAPE binding at the 3' end of the structure

^a 5' phosphorylated primer are indicated by P-; primer for SHAPE analysis were 5' Cy5 labelled indicated by Cy5-