

Selected RetroTector[®] RT and IN Motifs from the Pol alignment with WebLogo consensus

	RT1	RT4	RT5	IN2 and IN3 (HCC)	IN5	IN6
HERV-S	YHFPVWVVK	FHYIDDMIL	GWTINESKVQ	LHRKLRHGGGWNWNCN-RS-VGAELSLPSQDILEAQCQKCSACTQA	SLAIESDRRTHFT---	HVSYNPQTITGMIEQHS-ILK
gg01-Chr4-48130894	YNSPIWVVK	FHYIDDMIL	GWAINDPKVQ	LHRKLRHAGQKTMAAANKA-WGLPIQLP--DIVQACQDCDCASRM	PEVIESDQGTHTFT---	HLPYNPQTGAGLIERYNGLK
HERV-L	FNSPIWVVK	VHYIDDMIL	GWEINPTKIQ	AHEQSGHGRMEVMHG----LSNMDPLTKADLAMATAECPICQOE	PHSIASDQGTHTFT---	HVPHPPEAAGLIERWNLK
pt01-Chr5-53871501	ZNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	MHAWTHLSKKKRLLEIEK---TDFLIPRVGTLLEQVTLACKACQOV	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
BaEV	WNTPLLPVKK	LQYVDDLLA	GYRASAK-AQ	MHAWTHLGRKRLLEIEK---TDFLIPRSTLLEQVTSACKVCQOV	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
MLV	WNTPLLPVKK	LQYVDDLLA	GYRASAK-AQ	LHQVTLHLSFSKMKALLERSHSPYMLNDRRLTNNITETCKACAQV	PQVLGTDNGPAFVSKV	HCAYPQSSSGQVERMNRITK
FLV	WNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	LHKLTHLGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PQVLGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
GalV	YNTPLLPVKK	LQYVDDLLA	GYRASAK-AQ	LHQVTLHLSFSKMKALLERSHSPYMLNDRRLTNNITETCKACAQV	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
PERV	WNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
pt01-Chr10r-17119458	YNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
HERV-T	WNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
ERV-3	WNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
HERV-E	WNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
gg01-ChrU-126703652	YSITILPVVK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
HERV-ADP	YNTPLLPVKK	LQYVDDLLA	GYRASAKKAQ	IHRHTLHGRKMKTLLEREETGYPVLRNDRHLRQVTECRACAQI	PKVIGSDNGPAFVSQV	HCAYPQSSSGQVERMNRITK
gg01-ChrU-49656081	FNTPLPVKKS	LQYVDDLLS	GLRVSKNKKQ	LHQGSHWGPQALCDAILR---NYVCIGIZTLTKQVGCSCVICQSL	VEHIDSHQGSHTFQV	HIPWHLSSSRVERMNRITK
HERV-I	YNTPLPVKKS	LQYVDDLLS	GLRVSKNKKQ	LHQGSHWGPQALCDAILR---NYVCIGIZTLTKQVGCSCVICQSL	VEHIDSHQGSHTFQV	HIPWHLSSSRVERMNRITK
HERV-Hconsensus	YNSPILPVKQ	IQYIDDLIC	GYRVSPSKAQ	FHNLHVGVKPLARLLEP---LISFSPWSKILKEITSQCSICYST	PTSISQSDNGPAFTSQI	HIPYHPQSSGKVERTNGLK
HERVH-RGH2	IQYIDGVLV	---	---	FHNLHVGVKPLARLLEP---LISFSPWSKILKEITSQCSICYST	PTSISQSDNGPAFTSQI	HIPYHPQSSGKVERTNGLK
HERVH-RTVLH2	IYHSPILPVK	---	---	FHNLHVGVKPLARLLEP---LISFSPWSKILKEITSQCSICYST	PTSISQSDNGPAFTSQI	HIPYHPQSSGKVERTNGLK
HERV-Fc1	CNTPLPVKKS	LQYVDDLLC	GYRVTPPKAQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HERV-Fc2	CNTPLPVKKS	LQYVDDLLC	GYRVTPPKAQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HERV-W	CSTPILGVKQ	SGVDDLLC	GYMVSQPKAQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HERV-FRD	CNTPLILVKK	LQYVDDLLC	RYKVSQKAKTQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
MER4like	CNTPLILVKK	LQYVDDLLC	RYKVSQKAKTQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
WDSV	CNTPLILVKK	LQYVDDLLC	RYKVSQKAKTQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
hg15-chr3-152465283	CNTPIFPVKK	CIYMDVLLA	GKVSQKSKSZ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
Xen1	CNTPLPVKKS	LQYVDDLLC	GCKASKEKLLQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
ALV	WNTPIFPVKK	LQYVDDLLA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
gg01-chr1-15616845	WNTPIFPVKK	LQYVDDLLA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
MFV	WNTPIFPVKK	LQYVDDLLA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
JSRV	IHYMDLILA	---	---	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
MMTV	WNTPIFPVKK	LQYVDDLLA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML1	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML2	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML3	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML4	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML7	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML8	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML6	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML9	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML5	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HML10	WNSPVFVVK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
Python-molurus	YNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
gg01-Chr7-57353782	YNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
gg01-ChrU-163504869	YNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HIV-1	YNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HIV-2	YNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
Visna	CNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
EIAV	YNSPILPVKQ	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HTLV-1	GNNPVFVVK	VQYMDLILA	GLPIQSEKTKQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HTLV-2	GNNPVFVVK	VQYMDLILA	GLPIQSEKTKQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
BLV	GNNPVFVVK	VQYMDLILA	GLPIQSEKTKQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HSRV	MNTPVYVVK	QVYVDDIYL	GYVSLKKSSE	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HV	MNTPVYVVK	QVYVDDIYL	GYVSLKKSSE	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HERV66	VNSAIPVVK	LQYVDDILL	GVRINPKKSH	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
Snrv	WNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
gg01-chr4-77338201	WNTPIFPVKK	IHYMDLILA	GLTIAPDKIQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HERV40	XNSLVXVVK	FHYIDDXVLL	KLQKSHGTCL	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
Cypsy	WSAPVWVVK	LFYLDLIIIF	NFKLQPSKSE	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
HERV74	FNSPILPVKQ	ZHYIDDLILA	EATYSPFTLIL	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
gg01-ChrU-59120725	FNTPLPVKKS	LQYVDDLLA	GLRVSKNKKQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK
gg01-chr7-7163462	LNGGRYTEAH	LKVYDHLIS	GLRVPRNKSQ	VHKTLLHGPELLEKLLG---YFYIHSLSALAKTVTRQVTCRQH	PLRIGSDNGPVLVADL	HAAYPQSSSGQVERMNRITK

