Dimer/Pol-8 Binding

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                    *        20         *        40         *        60         *        80
KSHV     MPVDFHYGVRVDVTLLSKIRRVNEHIKSATKTGVVQVHGSACTPTLSVLSSVGTAGVLGLRIKNALTPLVGHTEGSGDVSF  81
PtrRV1   MPVDFHYGVRVDVALLSKIKRVNEHIKSATKNGVVQVHGSACSPTLSVLSSVGAAGVLGFRIKNALTPLVGHTEGSEDISF  81
RFHVMm   MPVDFHYGVRLEAELFYGLKRVHDHLKTSVKNGVVQIHGPGSAPVLSVLSSLGPAGVLGLRVKNALSPLLGSCEADGEVNF  81
RFHVMf   MPVDFHYGVGWSG-LFYGLRRVHDHLKTSVKNGVVQIHGPGTAPVLSVLSSLGPAGVLGLRVKNALSPLLGSCEADGEVNF  80
RV1 RFHVMn   MPVDFHYGVRVDAEFLYGLRRVHDHLKTSIKSGVIQIHGPGTAPVLSVLSSLGPAGVLGLRVKNVLSPLLGSCDADGEVNF  81
RV2 PtrRV2   MPITFHYGVRVDVGILAGIRRVYEHIKGNTKNGVIQISGKGCAPVLSVLSSVGDAGVLGLRIKNALTPLMVYSDMTEEISF  81
RRV      MPVSFHYGARVDVDALGSISRVYDHIKGIVKKGVIQISGQGRAPVLSVLSSVGDAGVLGLRLKNALAPLMVYSDMTDEVSF  81
MfaRV2   MPVSFHYGARVDVDALGGISRVYDHIKGIVKKGVIQISGQGRAPVLSVLSSVGDAGVLGLRLKNALAPLMVYSDMTDEVSF  81
MneRV2   MPVSFHYGARVDVEALGNIRRVYEHIKGSVKKGVIQISGQGRAPVLSVLSSVGDAGVLGLRLKNALAPLMVYSDMTDEVSF  81

                    *       100         *       120         *       140         *       160
KSHV     SFRNTSVGSGFTHTRELFGANVLDAGIAFYRKGEACDTGAQPQFVRTTISYGDNLTSTVHKSVVDQKGILPFHDRMEAGGR 162
PtrRV1   SFRNTSIGNGFTHTRELFGVNVLDAGIAFYRKGEVCEAGTQPQFVRTTISYGDNLTSTVHKSVVDQKGILPFHDRMESGGR 162
RFHVMm   SFRNTSIGNGFTHTREIFGSNILETSIVFYRRGEAYQGASVPQFVRTTISYSDNVTTTVHKSVLDPNNLPAFYDKMNPGSK 162
RFHVMf   SFRNTSMGNGFTHTREIFGSNILETSIVFYRRGEAYQGASVPQFVRTTISYSDNVTTTVHKSVLDPNNLPAFYDRMNPGTK 161
RV1 RFHVMn   SFRNTSIGNGFTHTREIFGSNILETSIVFYRKGEAYQGTPVPQFVRTTISYSDNVTTTVHKSVLDPNNLPAFYDRMEPGIK 162
RV2 PtrRV2   SFRNTSIGNTFTHTREMFGSDISEMNVAFYRHGDDADAELRPRFVRTTISYGDNRTSTVHKSVVDDTDIPSFHDRLEHAEM 162
RRV      SFRNTSLGNTFTHTREMFGVNIAEMNVAFYHHGDESDAEGKPQFVRTTIAYGDNHTSTVHKSVVDEPNLPSFHDRLEQAGT 162
MfaRV2   SFRNTSLGNTFTHTREMFGVNITEMNVAFYHHGDESDAEGKPQFVRTTIAYGDNHTSTVHKSVVDEPNLPSFHDRLEQAGT 162
MneRV2   SFRNTSLGNTFTHTREMFGVNITEMNVAFYHHGDEADPNGKPQFVRTTIAYGDNHTSTVHKSVVDETNLPSFHDRLEQAGT 162

                    *       180         *       200         *       220         *       240
KSHV     TTRLLLCGKTGAFLLKWLRQQKTKEDQTVTVSVSETLSIVTFSLGGVSKIIDFKPETKPVSGWDGLKGKKSVDVGVVHTDA 243
PtrRV1   TTRLLLCGKTVAFLLKWLRQQKTKDDQTVTVSISETLSVATFSLGGVSKIIDFKPETKPVSGWDGLKGKKSVDVGVVHADA 243
RFHVMm   TNRLLFCGKTLTMLTRWLRQQKAKADQTVTVAASETLSVVTFSVAGVSKILDFSPETSANADWEALKRRKQIDVGVVRTDA 243
RFHVMf   TNRLLLCGKTLTMLTRWLRQQKAKADQTVTVAASETLSVVTFSVAGVSKILDFSPETGADADWEALKRKKQIDVGVVRTDA 242
RV1 RFHVMn   TNRLLLCGKTLTMLTRWLRQQKTRADQTVTVAASETLSVVTFSVAGVSKILDFSPETSATADWETLKRKKQIDVGVVRTDA 243
RV2 PtrRV2   GNCLYLTAKTTSLLVTWLKQQKGKERKTVTVSLSETLAVATFTVDGTSKIIDFKPQTDCPAGWASSRGRK-LDVGVVIGDS 242
RRV      GNRLFLTVKTLTLLLKWLRQQKTRAKQVVTVSLSETLAVATFTVDGVSKIIDFKPDT-PDAKWTCARGRK-LDVGVVSSDL 241
MfaRV2   GNRLFLTAKTLTLLSKWLRQQKTRARQVVTVSLSETLAVATFTVDGVSKIIDFKPDA-PDTKWTGAKGRK-MDVGVVSSDL 241
MneRV2   GNRLFLTGKTLTLLSKWLRQQKTRARQVVTVSLSETLAVATFTVDGVSKIIDFKPDA-PDAKWTCAKGKK-LDVGVVSSDL 241
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Dimer/DNA and Pol-8 Binding

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                    *       260         *       280         *       300         *       320
KSHV     LSRVSLESLIAALRLCKVPGWFTPGLIWHSNEILEVEGVPTGCQSGDVKLSVLLLEVN-RSVSAEGGESSQKVPDSIP--- 320
PtrRV1   VSRVSLESLIAALRLCKVPGWFTPGLIWHSNEILEVEGVPVGCQPGDVKLSVLLLEVN-RSVTAEGGEASQKGPDPIP--- 320
RFHVMm   ATQVSLESLLAALRLCKIPGWFTPGLVWHSNDILEVEGVPVASHPADVKLSVLLLKVDERRVDEHGGSRGEPIEDRLSPVL 324
RFHVMf   ATQVSLESLLAALRLCKIPGWFTPGLVWHSNDILEVEGVPVASHPADVKLSVLLLKVDERRVGEHGGSRGEPIEDRSPPVL 323
RV1 RFHVMn   ATQVSLESLLAALRLCKIPGWFTPGLVWHSNDILEVEGVSIASHPCDVKLSVLLLKVDEQSISEHRETHEKPPKDQPTPAL 324
RV2 PtrRV2   TTHVSLDSLLAALNLCKITGFPVPGFRWHANSILEVEGLPQTTDLCDVKLGVMLLKVD-------PVIPHDIRPSCAEESD 316
RRV      TTHVSLESLVAALNACKIPGFFLPGFRWHANEILEVEGLPLTDSLADVRLGVMLLKVD-------PTDRNNAVPGNLSEGA 315
MfaRV2   TTHVSLESLVAALNACKIPGFFLPGFRWHANEILEVEGLPLTDSLADVKLGVMLLKVD-------PTDRDNAVPGNLSEGA 315
MneRV2   TTHVSLESLVAALSACKIPGYFLPGFRWHANEILEVEGLPLTDTLADVKLGVMLLKVD-------PTGQENAVPGNLAKGA 315
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NLS

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                    *       340         *       360         *       380         *
KSHV     DSRRQPELESPDSPPLTPVGP---FGPLEDASEDAASVTSCPPAAPTKDSTKRPHKRRSDS-SQSRDRGKVPKTTFNPLI 396
PtrRV1   DSRRPPEPESPDSPPPTPVGP---FGSPEDASQDPTSVASCPQAAATKEHQKRPHKRRSDS-GQSRDRGKVPKTTFNPLI 396
RFHVMm   ECCEEFRPSSPISPPDTPGGD---FAAKISPSESRQVCSEVYVSPGVGKDSRRGQKRRSAL-NSTKERSKISKTTFNPLI 400
RFHVMf   ECCEEVRVPSPISPPDTPGGD---FAAGISPRESRQVCPEVRVSPGVGKDSRRGQKRRSAL-NSAKERSKISKTTFNPLI 399
RV1 RFHVMn   DVSEEIRPPSPISPPVTPGGE---FCAGISPKEGKQPRIDLHLPSVAGKESRRGQKRRSAA-GIGRERGKVSKTTFNPLI 400
RV2 PtrRV2   ---EEVQSETTRSRSHSTG-ECPRTPSIEGTADTEPIGSAAFQLIGSTLDKKQLKRKLNYS-GGGKYKAKTPRATFNPLI 391
RRV      DPEGVPELPSPPRTPDLDLKEQ-CVPIAEDGAEPTDGGAKSLRTSGSRPEKKHGKRKHSSSPSRGKGKTKTPRATFNPLF 394
MfaRV2   DREGVPELPSPPRTPDLDLKEQ-CVPNPEDGTDLTDGGAKSLRTSGPRPDKKHGKRKHSSSPSRGKGKTKTPRATFNPLF 394
MneRV2   E-EGIAECPSPPKTPDLDLREERCVPDAADCAESSDGGAKSPRTNGPRPDKRHAKRKHSSSPSRGKSKGKTPRATFNPLF 394
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RV2-specific antigens