

HSV-1-UL31 ---MYDIAPRRSGSRPGPGRDKTRRR-----SRFSAAGNPGVERRASRKSPLSHARRLELCL-----
DEV-UL31 MSDYDTTTHSSARRRRSSSFQPMR-----ARSSGSNVPYWRPYSRRRSLMRPSSQRG-----
EBV-BFLF2 ---MAPVTPDAVNAHQORPADPALRRLMHPHRRNYTASKASAHSVKSVSRCGKSRSELGRMERVGSVARSICSRHTR
HCMV-UL53 ---MSSVSGVRTPRERRSALRSLLRK-----RRQRELASKVASTVNGATSANNHGEPSS-----

HSV-1-UL31 HERRR----YRGFFAALAQTPESEEIAIVRSLSVPLVKTTVPVSLPFSLDQTVADNCLTSLSGMGYYLGIGGCCPACS-A
DEV-UL31 ETVER----YRRFFEMISRSPSDELAIVRELNVPLIKSTTVVLPFDLDMADVADNCLSLSGMGYQLGIGGCCPVCSSS
EBV-BFLF2 HGVDRSHFSLRDFFRGISANFELGKDFLREMNTPIHVSEAVFLPLSLCTLSPGRCLRLSPFGHSLTLGSHCEICINR
HCMV-UL53 PADARPRLTLDLHLDIFREHPELELKYLNMMKMAITGKESICLPFNHFSHRQHTCLDISPYGNEQVSRIACTSCE---

HSV-1-UL31 GDGRLATVSREALILAFVQQINTIFEHRTFLASLVVLADRRHS--T-PLQDLLADTLGQPELFFVHTILRGGG
DEV-UL31 :GEPRLNRIIDRSTLILAYVQQVNHLVQYRTFLASIQAAASDRISDDASETENILACISQQPEFFFAYYVLREAG
EBV-BFLF2 :SQVHVP-QEFSSTQLSFFNNVHKIIPNKTFYVSLSSSP-----SAVKAGLSQPSLLYAYLVT--GH
HCMV-UL53 :DNRILP--TASDAMVAFINQTSNIMKNRNFYFGCKSSE-----LLKLSTNQPPIFQIYYLL---H

HSV-1-UL31 ACDPRFLFYDPPTYGGHMLYVIFPGTSAHLHYRLIDRMLT-ACPGYRFAAHVWQSTFVLVVRRNAEKPAD
DEV-UL31 MRDIRVLFYRDVDEGGYVMIYIPFTGNAVHLHYRLIDCLKS-ACRGYRLMAHVWHSTFVLVVRDRDRERQTDV
EBV-BFLF2 FCGTICPIFSTNGKGRLLIMHLLLQGTSLHIPETCLKLLCENIGPTYELAVDLVGDAFCIKVS--P-RDVTY
HCMV-UL53 AANHDIVPFMAENGRLLMHVIFENSVDVHIPCDCITQMLTAAREDYSVTLNIVRDHVVISVL---CHAVS

HSV-1-UL31 E-IPTVSAADIYCKMRDISFDGGLMLEYQRLYATFDEFPPP-----
DEV-UL31 DSVFQISIEDIYCKMCDLNFDEGELLLEYRKYAAAFDDFPPP-----
EBV-BFLF2 EKAVNVDEDAIYEAIKDLECGDELRLQIINYTQLILENKQ-----
HCMV-UL53 :ASSVKIDVTILQRKIDEMDIPNDVSESFERYKELIQELCQSSGNNLYEATSSYAIRSPLTASPLHVSTNGCGPSSSSQ

HSV-1-UL31 -----
DEV-UL31 -----
EBV-BFLF2 -----
HCMV-UL53 STPPHLHPPSQATQPHHYSHHQSSQSQHHHRPQSPPPPFLNSIRAP