

Human Igκ V-J	SPSSLSASVGDRVITITCRASQGISNYLAWFQ.....	QKPGKAPPELLIYAASGLQSG...VPSKFSGSGSGTDFTLTISLQPEDFATYYCLQYNSYP
Pig Igκ V-J	SPASLAASLGDTVSITCRASQSISSSLGWYQ.....	QQPGKAPKLLIYAASSLQSG...VPSRFKGSGSGTDFTLTISGLQAEDVATYYCLQHNSAP
Mouse Igκ V-J	SPSPMYASLGERVTITCKASQDINSHLSWFQ.....	QKPGKSPKTLIHRADRLVDG...VPSRFSGSGSGQDYSLTISNLEYEDMGIYYCLQYDEFY
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HCMV UL141	SPAPVLVAEGEQVTIPCTVM.....THSWPMVSIRARFCRS..HDGSDELILDALKGHRLMNGLQYRLPYA.....TWNFSQLHLGQIFSLTFN.VSMDTAGMYECVLRNYSH	
CCMV UL141	SPAPMLVAEGERVTVPCTVM.....IHQWPLAVIRATFCCLSPPTERSVELVFNLSRGGGEVVVPLEEKLTESRLRGGVSYNFTDLHVAHLFSLTFR.ATASSAGVYECLLRNDSH	
RhCMV UL141	SPAPLIMPIGSQVTVPCAF.....PHSWPMVSIRARFCQSEY..GGYELKINATNGTVVDDDLTYRLINA.....SWKFHDLAISHYVTLTMN.ISDNTTGMFDCVLRNATH	
HCMV UL14	PGSPQLLPYGDRLEVACIFP.....AHDWPEVSIHVRLCYWP..EIVRSLVVDARSQQLHNDASCYIAGG.....RWRFEDGGAQRLSLSFR.LITETAGTYTCVLGNETH	
CCMV UL14	LSSPKMLPYGDRLDVSCIFP.....SHAWPEVSIHVRLCYWP..EIVRSLVVDAHSGQQLHNDVTCQISSG.....RWSFEDGGAQTLTLSFR.LITQTAGTYHCVLGNETH	

Supplementary Figure 2

Ig-like β sandwich domain encoded by HCMV UL141 (residues 15-114 in the mature protein), its orthologues in chimpanzee and rhesus cytomegalovirus (CCMV and RhCMV UL141), and the related UL14 gene in HCMV and CCMV. The domain was initially identified using the protein fold recognition program 3D-PSSM (<http://www.sbg.bio.ic.ac.uk/~3dpssm/>), and the alignment was derived from sequences in GenBank. Residues that are conserved in all the viral sequences and, in some instances, in cellular proteins containing the cognate domain, are in red. The central part of the alignment is predicated on the conserved W residue (asterisked) that is packed against the disulphide bond (C residues asterisked) in most Ig domains.