

$\beta 4S3$ $\beta 4S4$ $\beta 5S1$ $\beta 5S2$
 480 490 500 510 520 530 540 550
 AngV-G FSYPIYGNIIYFEKNQKITFDEANYTVYERYTEGSCPTINSSCPAFCHSGYNDIWAANDIDSNITFGIYNSDSHS
 Niv-G DTMIKFGDVLTVNPLVNVW..RNNNTVISRPGQSQCPRFNTCPETCWEGVYNDAFLLIDRLNWISAGVFLDSNQ
 HeV-G DTMIKLGDVDTVDPVLRVQW..RNNNSVISRPGQSQCPRFNTCPETCWEGVYNDAFLLIDRLNWISAGVYLNST
 MojV-G NRYLRFGITPDISVRSITTLKSKQDFIMKILSTCTNTDRDMCPETCNTRGYQDIFPLSEDEYIYTYIGITPNNG
 CedPV-G DTYLKAGFVEKWKPFPTPNW..MNNNTVISRPNQGNCPRYHKCPETCYGTYNDIAPLDLGKDMYVSVILDSQ
 GhV-G HTLLQVAEITDLDKYQLDW..LDTPIYISRPGGSECPFGNYCPTVCWEGTYNDVYSLTPNNDLFVTVYLLKSEQV
 GAKV-G NRYLKFGTTNTLIPTEVEVSKLKDPIIMDIQNNCHNTNQDMCPAVCSSYGYEDIFPLNIEGNAMTYMSMSRNGE
 DARV-G FARIRYQGTDRASPQRYEWDYMSFETPYLYLCSGGR..ICPVSCKTWNFTVPTILNPSGSIIIGVKAKSKTG

$\beta 5S3$ $\beta 5S4$ $\beta 6S1$ $\beta 6S2$ $\beta 6S3$
 T 560 570 580 590 600 610 620
 AngV-G YGRPVFFMANQSGIMYEFVITPGSIIAAGQSTTSCLLFYQEVWCMNVIETIRKTLNSSQEIYGFWTKTPLVCP
 Niv-G AENPVFTVFKDNEILYRAQLASEDTNAQKTITNCFLLKNKIWCISLVETIYDTGDNVIRPKLFAVKIPKCT..
 HeV-G AENPVFAVFKDNEILYQVPLAEDDTNAQKTITNCFLLKNKIWCISLVETIYDTGDSVIRPKLFAVKIPKCT..
 MojV-G GTKNFVAVRSDGHIASIDILQNYYSITSAITISCFMYKDEIWCIAITTEGKKQKDNPQRIYAHSYKIRQMCYNM
 CedPV-G AENPEITVFNSTTILYKERVSKDELNTRSITTSCTFLFLDEPWCISVLETNRFNGKSIIRPEIYSYKIPKYC...
 GhV-G AENPYFAIFSRDQILKEFPPLDAWISSARTTISCFMFNNEIWCIAALETIRLNDIIRPIYYSFWLPTDCRTP
 GAKV-G GTSNFIIVARSQDNYVNTMKALGEYFKIITATTSCTFTFKDEAWCIVVNEGQHKKGDKQRIFAHSYKLLKSKCIKR
 DARV-G NSASMINTINTPEVIDQYEVFNQYSIGSTITKCFSTYKRQPCWCLVLLLEGVLSKSTGTETSTIQTIFKIFRSCKV

630 640 650 660 670 680
 AngV-G DQYDIAHAFAFLPTPTSPAPAPSQSVPVTEASTITLIQSVEPQGTPTDIPSTTNRDDIQTITNATSG
 Niv-G
 HeV-G
 MojV-G KSATVTVGNAKNITIRRY.....
 CedPV-G
 GhV-G YPHTGKMTRVPLRSTYNY.....
 GAKV-G SKITDLATTSITFNRSIR.....
 DARV-G RTYLDLSLGTFRFYTVSDNGNKTQTYIPGSDT.....