

CLUSTAL O(1.2.4) multiple sequence alignment

E1 KJ950914.1 Pestivirus_J_NrPV/NYC-D23	NKIYCEKFHVLGDLVYVNSCLPMGLPTGARFVSKNVISLEPEKTAQIIIPRLTHHLDSGIL	60
E1 EF100713.2 Porcine_Bungowannah	-SPYCPVAKRVFNIIYTNMCTPLGLPDKSKIIGPGTFDISGR-DEFIFPKLPYHVDDFIL	58
E1 AY781152.3 Pronghorn_antelope_pestivirus	SEVYCKVEKRVGSLWYTRNCTPACLPGHTEILGAGVFDTNPQ-GRSLIPRLPGHITEAVI	59
E1 FJ527854.1 BVDV_XJ-04	ASPYCDVERKIGYIWYTKNCTPACLPNTRIIGPGKFDTNAE-DGKILHEMGGHLSFVL	59
E1 LC006970.1 BVDV_2_KZ-91-CP	ASPYCDVERKIGYIWYTKNCTPACLPNRTKIIGPGKFDTNAE-DGKILHEMGGHLSFVL	59
E1 GQ888686.2 BVDV_2_JZ05-1	ASPYCEVERKIGYIWYTKNCTPACLPNRTKIIGPGKFDTNAE-DGKILHEMGGHLSFAL	59
E1 KX096718.1 BVDV_2_HB-1511	ASPYCDVERKIGYIWYTKNCTPACLPNTRIIGPGKFDTNAE-DGKILHEMGGHLSFVL	59
E1 JF714967.1 BVDV_2_HLJ-10	ASPYCNVERKIGYIWYTKNCTPACLPNTRIIGPGKFDTNAE-DGKILHEMGGHLSFVL	59
E1 KT875169.1 BVDV_2_91W	ASPYCDVERKIGYIWYTKNCTPACLPNTRIIGPGKFDTNAE-DGKILHEMGGHLSFAL	59
E1 HQ258810.1 BVDV_SH-28	ASPYCDVERKIGYIWYTKNCTPACLPNTRIIGPGKFDTNAE-DGKILHEMGGHLSFVL	59
E1 KT832818.1 BVDV_2_USMARC-60765	ASPYCDVERKIGYIWYTKNCTPACLPKNTRIIGPGKFDTNAE-DGKILHEMGGHLSFVL	59
E1 AB567658.1 BVDV_Hokudai-Lab/09	ASPYCDVEKKIGYVWYTKNCTPACLPKNTKIIGPGKFDTNAE-DGKIIHEMGGHLSFVL	59
E1 KJ000672.1 BVDV_2_SD1301	ASPYCNVEKKIGYIWYTRNCTPACLPKNTKIIGPGKFDTNAE-DGKIIHEMGGHLSFAL	59
E1 JQ799141.1 BVDV_1_sichuan	ASPYCNVERKLGYVWYTKNCTPACLPKNTKIIGPGMFDTNAE-DGKILHEMGGHLSFIL	59
E1 AB078950.1 BVDV_1_KS86-1ncp	ASPYCEVKKIGYIWYTNCTPACLPKNTKIIGPGKFDTNAD-DGKILYEMGGHLSVLL	59
E1 JN400273.1 BVDV_1_SD0803	ASPYCAVERKIGYIWF TKNCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGGHLSVLL	59
E1 KX987157.1 BVDV_1_SLO/1170/2000	ASPYCDVERKIGYIWYTKNCTPACLPNRTKIVGPGKFDTNAD-DGKILHEMGGHLSVLL	59
E1 LT631725.1 BVDV_1_UM/126/07	ASPYCNVERKIGYIWF TKNCTPACLPKNTKIVGPGKFDTNAD-DGKILHEMGGHLSVLL	59
E1 KF896608.1 BVDV_1_Bega-like	ASPYCDVERKLGYIWF TKNCTPACLPKNTKIVGPGMFDTNAD-DDKILHEMGGHLSVLL	59
E1 M96751.1 BVDV_1_SD1	ASPYCDVDRKIGYIWF TKNCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSVLL	59
E1 KC757383.1 BVDV_1_10JJ-SKR	SSPYCDVERKLGYIWF TKNCTPACLPKNTKIVGPGKFDTNAE-DGKIMHEMGGHLSVLL	59
E1 AF526381.3 BVDV_1_ZM-95	ASPYCEVERKIGYIWYTKNCTPACLPKNTKIVGPGRFDTNAE-DGKILHEMGGHLSVLL	59
E1 KP941591.1 BVDV_1_USMARC-55925	ASPYCEVERRLGYVWYTKNCTPACLPNRTKIIGPGRFDTNAE-DGKILHEMGGHLSVLL	59
E1 LC089876.1 BVDV_1_Shitara/02/06	ASPYCDVDRKVGYIWYTKNCTPACLPKNTMIIGPGKFDTNAE-DGKILHEMGGHLSMLL	59
E1 KC853441.1 BVDV_1_SuwaCp	ATPYCEVEQKIGYIWT KNCTPACLPKNTKIVGPGKFDTNAE-DGKILHEMGGHLSVLL	59
E1 KX577637.1 BVDV_1_SLO/2407/2006	ATPYCEVDRKLGYIWYTKNCTPACLPGNTKIVGPGKFDTNAE-DGKIIHEMGGHVSEVLL	59
E1 KP313732.1 BVDV_1_Carlito	ATPYCEVERKLGYVWYTKNCTPACLPGNTKIVGPGKFDTNAE-DGKILHEMGGHLSVLL	59
E1 FJ040215.1 BVDV_3_Th/04_KhonKaen	ATPYCNVSRKIGYVWYTNMCTPACLPNMNTRIVGPGKFDTNAD-DGKILHEMGGHLSLAI	59
E1 KC297709.1 BVDV_3_LVRI/cont-1	ATPYCNINKRIGYVWYTNMCTPACLPKNPRIVGPGKFDTNAD-DGKILHEMGSHLSELT I	59
E1 KC788748.1 BVDV_3_Italy-129/07	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 JX469119.1 BVDV_3_JS12/01	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIMGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 JX985409.1 BVDV_3_CH-KaHo/cont	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 AB871953.1 BVDV_3_D32/00_'HoBi' like	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 HQ231763.1 BVDV_3_Italy-1/10-1	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 JQ612704.1 BVDV_3_Italy-83/10-ncp	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 NC_018713.1 BVDV_3_LV03/12	ATPYCNINKKIGYVWYTNMCTPACLPKNTRIVGPGKFDTNAD-DGKILHEMGSHLSELA I	59
E1 KJ660072.1 Pestivirus_PG-2	-SPYCEVNRKLGYIWYTNMCTPACLPGNTKIIGPGKFDTNAE-DGKILHELGGHISEFLL	58
E1 MH410816.1 Pestivirus_PG-2_GIRAFFE	-SPYCEVNRKLGYIWYTNMCTPACLPGNTKIIGPGKFDTNAE-DGKILHELGGHISEFLL	58
E1 AF144617.2 Pestivirus_giraffe-1_H138	ASPYCEVNKKLGYIWYTNMCTPACLPGNTKIIGPGKFDTNAE-DGKILHELGGHLSFIL	59
E1 KJ463422.1 BDV_FNK2012-1	QSPYCNVTRKIGYIWYTNMCTPACLPNRTKIIGPGKFDTNAE-DGKILHEMKGHISEFIL	59
E1 U70263.1 BDV_BD31	QSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMKGHISEFIL	59
E1 KF925348.1 BDV_Coos_Bay-5_nc	QSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMKGHISEFIL	59
E1 AB897785.1 BDV_X818	QSPYCNVTRKIGYVWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMRGHISEFIL	59
E1 AF144618.2 Pestivirus_reindeer-1_V60-Krefeld	QSPYCNVTKKLGYIWYTNMCTPACLPNRTKIVGPGKFDTNAE-DGKILHEMRGHISEFLL	59
E1 KC963426.1 BDV_JSLS12-01	QSPYCNVTRKIGYIWYTNMCTPACLPGNTKIIGPGKFDTNAE-DGKILHEMRGHISEFLL	59
E1 AF407339.1 BDV_Aveyron	QSPYCNVTKKLGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMRGHISEFLL	59
E1 AY646427.1 CSFV_94.4/IL/94/TWN	MSPYCNVTRKVGYIWNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KP233070.1 CSFV_GXF29/2013	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KC851953.1 CSFV_IND/UK/LAL-290	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 AF407339.1 CSFV_39	MSPYRNVTRKIGYIWYTNMCTPACLPNRTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 FJ529205.1 CSFV_Zj0801	MSPYCNVTRKIGYIWYTNMCTPACLPNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KJ619377.1 CSFV_Bergen	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KU504339.1 CSFV_GD19/2011	MSPYCNVTRKVGYIWNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KM362426.1 CSFV_IND/AS/GHY/G4	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 GQ923951.1 CSFV_SXCDK	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 J04358.2 CSFV_Alfort/Tuebingen	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 AY259122 CSFV_Alfort/Tuebingen	MSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KF669877.1 CSFV_JJ9811	LSPYCNVTSKIGYIWYTNMCTPACLPKNTRIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 X87939.1 CSFV_Alfort/187	LSPYCNVTSKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 X87939 CSFV_Alfort/187	LSPYCNVTSKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 KJ660072.1 CSFV_Riems	LSPYCNVTSKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHLSFLL	59
E1 GU270877.1 BDV_H2121_Chamois-1	QSPYCNVTKKIGYVWYTSNCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMKGHVSEFLL	59
E1 KF918753.1 BDV_Gifhorn_genotype-3	QSPYCNVTRKIGYIWYTNMCTPACLPGNTKIIGPGKFDTNAE-DGKILHEMRGHISEFLL	59
E1 JX428945.1 Pestivirus_Aydin/04-TR	QSPYCNVTRRIGYIWYTNMCTPACLPNRTKIIGPGKFDTNAE-DGKILHEMGGHISEFLL	59
E1 AF037405.1 Pestivirus_Aydin/04-TR	QSPYCNVTRRIGYIWYTNMCTPACLPNRTKIIGPGKFDTNAE-DGKILHEMGGHISEFLL	59
E1 KM408491.1 Pestivirus_Burdur/05-TR	QSPYCNVTRKIGYIWYTNMCTPACLPKNTKIIGPGKFDTNAE-DGKILHEMGGHISEFLL	59
	* : : . * * ** :. . :. : :. : *	
E1 KJ950914.1 Pestivirus_J_NrPV/NYC-D23	LVLVAMSDFMPETSSALYLILHFMIPNSRHRTISEEGLTMALNLTSTEPVSSVIPTSVYV	120
E1 EF100713.2 Porcine_Bungowannah	LSLIAMSDFAPETSSIIYALHYLMPNSDNDRDFVMDLDPNKLNLATKSVASVPTSVNV	118
E1 AY781152.3 Pronghorn_antelope_pestivirus	LSLVALSEVMPETSSALYIALHYFLHMPN--ETIGYCDKNQLNLITTTVDKVIPNSVYV	117
E1 FJ527854.1 BVDV_XJ-04	LSLVVLSDFAPETASAIYLVLFHFAIPQSH--ISVDTCDKNQLNITVAITVAEVIPGSVWN	117
E1 LC006970.1 BVDV_2_KZ-91-CP	LSLVVLSDFAPETASVIYLVLFHTIPQSY--VSVDTCDKNQLNLTVATTVAEVIPGSVWN	117
E1 GQ888686.2 BVDV_2_JZ05-1	LSLVVLSDFAPETASVIYLVLFHFAIPQSH--INVDTCDKSQLNLTVATTVAEVIPGTVWN	117
E1 KX096718.1 BVDV_2_HB-1511	LSLVVLSDFAPETSSAIYLVLFHFAIPQSH--VNVDTCDKNQLNLTVATTVAEVIPGSVWN	117

E1 JF714967.1 BVDV_2_HLJ-10	LSLVVLSDFAPETASVIYLVLFHFAIPQSH--VSVDTCDKNQNLNTVATTVAEVIPGTWVN	117
E1 KT875169.1 BVDV_2_91W	LSLVVLSDFAPETASAIYLVLFHVIPQSH--VSVDTCDKNQNLNTVATTVAEVIPGTWVN	117
E1 HQ258810.1 BVDV_SH-28	LSLVVLSDFAPETASVIYLVLFHFAIPQNH--VNVDTCDKNQNLNTVATTVAEVIPGSWVN	117
E1 KT832818.1 BVDV_2_USMARC-60765	LSLVVLSDFAPETASVIYLVLFHFAIPQNH--INVDTCDKNQNLNTVATTVAEVIPGSWVN	117
E1 AB567658.1 BVDV_Hokudai-Lab/09	LSLVVLSDFAPESASVIYLVLFHYAIPQNH--AEVTTCDKNQNLNTVTTTTADVIPGSWVN	117
E1 KJ000672.1 BVDV_2_SD1301	LSLVVLSDFSPEATASVIYLVLFHYVIPQNH--VEVTTCDKNQNLNTIATTTADVIPGSWVN	117
E1 JQ799141.1 BVDV_1_sichuan	LSLVVLSDFAPETASALYLVLFHTIPQSH--TPVMDCKSQLNLTVGLTTADVVPSSWVN	117
E1 AB078950.1 BVDV_1_KS86-1ncp	LSLVVMSDFAPETASAIYLVLFHSIPQSH--TEVSDCKSQLNLTVGLTTADVIPGSWVN	117
E1 JN400273.1 BVDV_1_SD0803	MSLVVLSDFAPETASVVYLVLFHSIPQGH--TDVLDCDKGQNLNLTVGLRTEDVIPGSWVN	117
E1 KX987157.1 BVDV_1_SLO/1170/2000	LSLVVLSDFAPETASAVYLVLFHSIPQSH--SDILDCDKNQNLNLTVELTTEQVIPGSWVN	117
E1 LT631725.1 BVDV_1_UM/126/07	LSLVVLSDFAPETASVMYLVLFHFIPQSH--IDVSDCKNQNLNLTIGLKTDDVWPNWVN	117
E1 KF896608.1 BVDV_1_Bega-like	LSLVVLSDFAPETASAMYLILHFSIPQSH--TDITDCDKNQNLNLTIGLTTADMVPGSWVN	117
E1 M96751.1 BVDV_1_SD1	LSLVVLSDFAPETASAMYLILHFSIPQSH--VDITDCDKTQNLNLTIELTTADVIPGSWVN	117
E1 KC757383.1 BVDV_1_10JJ-SKR	LSLVVLSDFAPETASTLYLVLFHSIPQRH--TDILDCDKSQLNLTVGVTTADVIPGSWVN	117
E1 AF526381.3 BVDV_1_ZM-95	LSLVVLSDFAPETASVAYLALHFGIPQRH--TEVLDCDKNQNLNLTVGVTTEDVIPGSWVN	117
E1 KP941591.1 BVDV_1_USMARC-55925	LSVVVLSDFAPETASLIYLVLFHSIPQGH--TDIHDCKRNQNLNLTVELTTAEVIPGSWVN	117
E1 LC089876.1 BVDV_1_Shitara/02/06	LSLVVMSDFAPETASVIYLVLFHSIPQGH--TEVLDCDKNQNLNLTVGLTTADVIPGSWVN	117
E1 KC853441.1 BVDV_1_SuwaCp	LSLVVLSDFAPETASVIYLVLFHTVPQSH--TDVLDCDKNQNLNLTIIGVTTADVIPGSWVN	117
E1 KX577637.1 BVDV_1_SLO/2407/2006	LSLVVLSDFAPETASVVYLVLFHSIPQRH--TDILDCDKNQNLNLTVELTTADVIPGSWVN	117
E1 KP313732.1 BVDV_1_Carlito	LSLVVLSDFAPETASVMYLVLFHSIPQSH--TDILDCDKDQNLNLTVKLTADVIPGSWVN	117
E1 FJ040215.1 BVDV_3_Th/04_KhonKaen	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDKNQNLNLTVGLRTDEVWVPSSWVN	117
E1 KC297709.1 BVDV_3_LVRI/cont-1	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 KC788748.1 BVDV_3_Italy-129/07	LALVMSDFTPESTSVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 JX469119.1 BVDV_3_JS12/01	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 JX985409.1 BVDV_3_CH-KaHo/cont	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 AB871953.1 BVDV_3_D32/00_'HoBi'-like	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVGLRTDEVWVPSSWVN	117
E1 HQ231763.1 BVDV_3_Italy-1/10-1	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 JQ612704.1 BVDV_3_Italy-83/10-ncp	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 NC_018713.1 BVDV_3_LV03/12	LALVMSDFAPESASVLYLVLFHSIPQAH--EEVDQCDRNQNLNLTVSLRTDEVWVPSSWVN	117
E1 KJ660072.1 Pestivirus_PG-2	LSLVVLSDFAPETASAIYLVLFHYTIPQKH--EVVENCMDNQNLNLTVTKRVKDVIPSSWVN	116
E1 MH410816.1 Pestivirus_PG-2_GIRAFFE	LSLVVLSDFAPETASAIYLVLFHYTIPQKH--EVVENCMDNQNLNLTVTKRVKDVIPSSWVN	116
E1 AF144617.2 Pestivirus_giraffe-1_H138	LSLVVLSDFAPETASAIYLVLFHYTMPQKY--EVVGSCKRNQNLNLTVKTRVEDVIPSSWVN	117
E1 KJ463422.1 BDV_FNK2012-1	LSLVVLSDFAPETASTLYLVLFHTLPQTY--EVPSGCDTNQNLNLTVDLRVDDVIPSSWVN	117
E1 U70263.1 BDV_BD31	LSLVVLSDFAPETASTLYLVLFHTLPQTY--EVPSECDTNQNLNLTVGLRVDDVIPSSWVN	117
E1 KF925348.1 BDV_Coos_Bay-5_nc	LSLVVLSDFAPETASTLYLVLFHTLPQTY--EVPNECDTSQNLNLTVGLRVDDVIPSSWVN	117
E1 AB897785.1 BDV_X818	LSLVVLSDFAPETASTLYLVLFHALPQTH--EVPSVCDTNQNLNLTVSLRVDDVIPSSWVN	117
E1 AF144618.2 Pestivirus_reindeer-1_V60-Krefeld	LSLVVLSDFAPETASTLYLVLFHTIPQSH--EAPSECDTNQNLNLTIGLRVDEVWVPSSWVN	117
E1 KC963426.1 BDV_JSLS12-01	LSLVILSDFAPETASSLYLVLFHFAIPQSH--EIPDGCDTNQNLNLTVNLRVEDVIPSSWVN	117
E1 AF407339.1 BDV_Aveyron	LSLVVLSDFAPETASALYLVLFHFAIPQSH--ENPSSCDTNQNLNLTTGLKVEDVIPSSWVN	117
E1 AY646427.1 CSFV_94.4/IL/94/TWN	LSLVVLSDFAPETASALYLVLFHYTIPQIH--EVPEDCDTNQNLNLTVELRTEDWVPSSWVN	117
E1 KP233070.1 CSFV_GXF29/2013	LSLVILSDFAPETASTLYLVLFHYAVPQSY--GEPEGCDTNQNLNLTVGLRTQDVWVPSSWVN	117
E1 KC851953.1 CSFV_IND/UK/LAL-290	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPESCDTNQNLNLTVGLKTEDWVPSSWVN	117
E1 AF407339.1 CSFV_39	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPEGCDTNQNLNLTVGLKTEDWVPSSWVN	117
E1 FJ529205.1 CSFV_Zj0801	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPEGCDTNQNLNLTVGLRTEDWVPSSWVN	117
E1 KJ619377.1 CSFV_Bergen	LSLVILSDFAPETASTLYLVLFHYAIPQSH--DEPEGCDTNQNLNLTVGLRTEDWVPSSWVN	117
E1 KU504339.1 CSFV_GD19/2011	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPEGCDTNQNLNLTVGLRTEDWVPSSWVN	117
E1 KM362426.1 CSFV_IND/AS/GHY/G4	LSLVILSDFAPETASTLYLVLFHYAIPQPH--KEPEGCDTNQNLNLTVGLRTEDWVPSSWVN	117
E1 GQ923951.1 CSFV_SXCDK	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPEGCDTNQNLNLTVGLRTEDVIPSSWVN	117
E1 J04358.2 CSFV_Alfort/Tuebingen	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPEGCDTNQNLNLTVKLRTEDWVPSSWVN	117
E1 AY259122 CSFV_Alfort/Tuebingen	LSLVILSDFAPETASTLYLVLFHYAIPQSH--EEPEGCDTNQNLNLTVKLRTEDWVPSSWVN	117
E1 KF669877.1 CSFV_JJ9811	LSLVVLSDFAPETASTLYLVLFHYAIPQVH--KEPDGCDTNQNLNLTVELRTEDWVPSSWVN	117
E1 X87939.1 CSFV_Alfort/187	LSLVVLSDFAPETASALYLVLFHYVIPQSH--EEPEGCDTNQNLNLTVELRTEDVIPSSWVN	117
E1 X87939 CSFV_Alfort/187	LSLVVLSDFAPETASALYLVLFHYVIPQSH--EEPEGCDTNQNLNLTVELRTEDVIPSSWVN	117
E1 KJ660072.1 CSFV_Riems	LSLVVLSDFAPETASALYLVLFHYVIPQPH--DEPEGCDTNQNLNLTVELRTEDVIPSSWVN	117
E1 GU270877.1 BDV_H2121_Chamois-1	LSLVILSDFAPETASTLYLVLFHTIPQSY--ESPDDCDTNQNLNLTVSLKVEDVIPSSWVN	117
E1 KF918753.1 BDV_Gifhorn_genotype-3	LSLVVLSDFAPETASVLYLVLFHSIPQGY--ESPDQCDMNQNLNLTVDLKVEDVIPSSWVN	117
E1 JX428945.1 Pestivirus_Aydin/04-TR	LSLVVLSDFAPETASAIYLVLFHTIPQSY--ENPKDCDKNQNLNLTIGLRTEDWVPSSWVN	117
E1 AF037405.1 Pestivirus_Aydin/04-TR	LSLVVLSDFAPETASAIYLVLFHTIPQSY--ENPKDCDKNQNLNLTIGLRTEDWVPSSWVN	117
E1 KM408491.1 Pestivirus_Burdur/05-TR	LSLVVLSDFAPETASALYLVLFHTIPQSY--ENPADCDKNQNLNLTVGLKTEDWVPSSWVN	117
	: :: :*: . **::* *: ::: : **:* . :::* :*	

E1 KJ950914.1 Pestivirus_J_NrPV/NYC-D23	EGQWTCWKPSWWPYNADIALFFEGAFEMLELIARAVGDLMKVWTEATAVAFLCFLIKAFR	180
E1 EF100713.2 Porcine_Bungowannah	LGEWVCVKPSWWPYSAEITNLIGGVI TVADLVIKTIEELLNLWTEATAVAFLAALIKIFR	178
E1 AY781152.3 Pronghorn_antelope_pestivirus	LGQWVCVKPGWWPYDSEVTLVVNEVINVLIDIGGRAARVLLQVWDAATAIAVLIFIMKVAR	177
E1 FJ527854.1 BVDV_XJ-04	LGKYVCIRPNWWPYETTAVFVLEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 LC006970.1 BVDV_2_KZ-91-CP	LGKYVCIRPDWWPYETATVFVLEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKALR	177
E1 GQ888686.2 BVDV_2_JZ05-1	LGKYVCIRPDWWPYETTTFVFLLEEAGQVIKLGRLAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 KX096718.1 BVDV_2_HB-1511	LGKYVCIRPDWWPYETTTLVLVLEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 JF714967.1 BVDV_2_HLJ-10	LGKYVCIRPDWWPYETTTFVFLLEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 KT875169.1 BVDV_2_91W	LGKYVCIRPDWWPYETTTFVFLLEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 HQ258810.1 BVDV_SH-28	LGKYVCIRPDWWPYETTTFVFLLEEAGQVVKLGLRAIRDLTRIWNAAATTIAFLVFLVGALR	177
E1 KT832818.1 BVDV_2_USMARC-60765	LGRYVCIRPDWWPYETTTFVFLLEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 AB567658.1 BVDV_Hokudai-Lab/09	LGKYVCIRPDWWPYETATVFALEEAGQVVKLGLRAIRDLTRIWNAAATTTAFLVFLVKVLR	177
E1 KJ000672.1 BVDV_2_SD1301	LGKYVCIRPDWWPYETTTFVFALEEAGQVVKLGMRAIRDLTRIWNAAATTIAFLVFLVKVLR	177
E1 JQ799141.1 BVDV_1_sichuan	LGKWVCVRPDWWPYETATVLLFEEAGQVVKIALRAVRDITRIWNAAATTTAFLVCLVRVAR	177
E1 AB078950.1 BVDV_1_KS86-1ncp	IGRYVCIRPDWWPYETTTLVVVEEVSQVVKLVLRRAIRDLTRIWDAAATSTAFLVCLVKVVR	177
E1 JN400273.1 BVDV_1_SD0803	LGRYVCIRPNWWPYETTTLVAFEEIGQVIKIALRALRDLTRIWNAAATATAFLVCLVKVVR	177
E1 KX987157.1 BVDV_1_SLO/1170/2000	LGRYVCIRPNWWPYETAPVLALEEIGQVINIVLRALRDLTRIWNAAATTTAFLVCLVKVVR	177
E1 LT631725.1 BVDV_1_UM/126/07	MGKYVCIRPNWWPYETTAVLAFAEEVSQVVKIVLRALRDLTRIWNAAATTTAFLVCLVKVVR	177
E1 KF896608.1 BVDV_1_Bega-like	LGKYVCIRPNWWPYETVTVLAFEEVGQVIKIVLRALRDLTRIWNAAATTTAFLVCLVKVVR	177
E1 M96751.1 BVDV_1_SD1	LGKYVCIRPDWWPYETA AVLAFAEEVGQVVKIVLRALRDLTRIWNAAATTTAFLVCLIKMVR	177

E1 KC757383.1 BVDV_1_10JJ-SKR	LGKWVCIRPDWWPYETAPVLAFAEEAGQVVRIALRALRDLTRIWNAATTTAFLVCLVKVWR	177
E1 AF526381.3 BVDV_1_ZM-95	LGRYVCIRPDWWPYETATVLVFEEISQVIKLVLRALRDLMRIWNAATTTAFLVCLVKVWR	177
E1 KP941591.1 BVDV_1_USMARC-55925	LGKYVCIRPDWWPYETATVLVFEEVGQVIKIVLRALRDLTRIWTAATTTAFLVCLVKVWR	177
E1 LC089876.1 BVDV_1_Shitara/02/06	LGRYVCIRPDWWPYETATVMAFAEEVGQVIKIALRALKDLTRIWNAATTTAFLVCLVKVWR	177
E1 KC853441.1 BVDV_1_SuwaCp	LGKYVCIRPDWWPYETAABLVFEEVGQVIKIALRALRDLTRIWNAATTTAFLVCLVKVWR	177
E1 KX577637.1 BVDV_1_SLO/2407/2006	LGKYVCIRPDWWPYETATVLAFAEEIGQVIKIALRALRDLTRIWNAATTTAFLVCMVKVWR	177
E1 KP313732.1 BVDV_1_Carlito	LGKYVCIRPDWWPYETATVLAFAEEVGQVIKIALRALRDLTRIWNAATTTAFLVCLVKVWR	177
E1 FJ040215.1 BVDV_3_Th/04_KhonKaen	LGKWVCVRPSWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 KC297709.1 BVDV_3_LVRI/cont-1	LGKWVCVRPPWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 KC788748.1 BVDV_3_Italy-129/07	LGKWVCVRPPWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 JX469119.1 BVDV_3_JS12/01	LGKWVCVRPSWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 JX985409.1 BVDV_3_CH-KaHo/cont	LGKWVCVRPSWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 AB871953.1 BVDV_3_D32/00_'HoBi'like	LGKWVCVRPPWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 HQ231763.1 BVDV_3_Italy-1/10-1	LGKWVCVRPPWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 JQ612704.1 BVDV_3_Italy-83/10-ncp	LGKWVCVRPPWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 NC_018713.1 BVDV_3_LV03/12	LGKWVCVRPPWWPYETATVLAFAEEIGQVLKLILRALKDLTNMWNAASTTAFLVCLVKILR	177
E1 KJ660072.1 Pestivirus_PG-2	IGKYVCVRPDWWPYETTTVLIFEEISHVVKLVLRALRDLTRIWNAASTTAFLICLVKVL	176
E1 MH410816.1 Pestivirus_PG-2_GIRAFFE	IGKYVCVRPDWWPYETTTVLIFEEISHVVKLVLRALRDLTRIWNAASTTAFLICLVKVL	176
E1 AF144617.2 Pestivirus_giraffe-1_H138	IGKYVCVRPDWWPYETTTVFIFEEVSQVVKLVLRALRDLTRIWNAASTTAFLICLVKVL	177
E1 KJ463422.1 BDV_FNK2012-1	LGKYVCVRPDWWPYETTIVLLFEEAGQVVKLVLRRAIRDLTRIWSASTTAFLICLIKVL	177
E1 U70263.1 BDV_BD31	LGKYVCVRPDWWPYETTIVLLFEEAEQVVKLVLRRAIRDLTRVWSASTTAFLICLAKVL	177
E1 KF925348.1 BDV_Coos_Bay-5_nc	LGKYVCVRPDWWPYETTIVLLFEEAEQVVKLVLRRAIRDLTRVWSASTTAFLICLVKVL	177
E1 AB897785.1 BDV_X818	LGKYVCVRPDWWPYETTMVLLFEEAGQVVKLVLRRAIRDLTRVWSASTTAFLICLVKVL	177
E1 AF144618.2 Pestivirus_reindeer-1_V60-Krefeld	LGKYVCVRPDWWPYETTIVLLCEEAGQVIKLVLRRAIRDLTRVWSASTTAFLICLIKVL	177
E1 KC963426.1 BDV_JSLS12-01	LGKYVCVRPDWWPYETTAVLLFEEAGQIVKLILRAIRDLTRVWSASTTAFLICLVKVL	177
E1 AF407339.1 BDV_Aveyron	LGKYVCVRPDWWPYETTIVLLFEEAGQVVKLVLRRAIRDLTRVWSASTTAFLICLVKVL	177
E1 AY646427.1 CSFV_94.4/IL/94/TWN	VGEYVCVRPDWWPYETKVLLFEEAGQVIKLALRAMRDLTRVWSSASTIAFLICLIKVL	177
E1 KP233070.1 CSFV_GXF29/2013	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 KC851953.1 CSFV_IND/UK/LAL-290	IGKYVCVRPDWWPYETKVALLFEEVGQVIKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 AF407339.1 CSFV_39	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLALRALRDLTRVWSASTTAFLICLIKIL	177
E1 FJ529205.1 CSFV_Zj0801	IGKYVCVRPDWWPYETKVALLFEEAGQVVKLALRALRDLTRVWSASTTAFLICLIKIL	177
E1 KJ619377.1 CSFV_Bergen	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLALRALRDLTRVWSASTTAFLICLIKTL	177
E1 KU504339.1 CSFV_GD19/2011	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLALRALRDLTRVWSASTTAFLICLIKIL	177
E1 KM362426.1 CSFV_IND/AS/GHY/G4	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLVLRALRDLTRVWSASTTAFLICLIKVL	177
E1 GQ923951.1 CSFV_SXCDK	IGKYVCVRPDWWPYETKVALLFEEAGQVVKLVLRALRDLTRVWSASTTAFLICLIKVL	177
E1 J04358.2 CSFV_Alfort/Tuebingen	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLVLRALRDLTRVWSASTTAFLICLIKVL	177
E1 AY259122 CSFV_Alfort/Tuebingen	IGKYVCVRPDWWPYETKVALLFEEAGQVIKLVLRALRDLTRVWSASTTAFLICLIKVL	177
E1 KF669877.1 CSFV_JJ9811	VGKYVCVRPDWWPYETKVALLFEEAGQVIKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 X87939.1 CSFV_Alfort/187	VGKYVCVRPDWWPYETKVALLFEEAGQVVKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 X87939 CSFV_Alfort/187	VGKYVCVRPDWWPYETKVALLFEEAGQVVKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 KJ660072.1 CSFV_Riems	VGKYVCVRPDWWPYETEVALLFEEVGQVVKLALRALRDLTRVWSASTIAFLICLIKVL	177
E1 GU270877.1 BDV_H2121-Chamois-1	LEKYVCIRPYWWPYETTVALLFEEAGQVLKLALRAIRDLTRVWSASTTAFLICLVKLL	177
E1 KF918753.1 BDV_Gifhorn_genotype-3	LGKYVCIRPDWWPYETTIVLLFEEAGQVIKLALRAIRDLTRVWSASTTAFLICLVKVL	177
E1 JX428945.1 Pestivirus_Aydin/04-TR	IGKYVCIRPDWWPYETTIVLLFEEVGQVIKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 AF037405.1 Pestivirus_Aydin/04-TR	IGKYVCIRPDWWPYETTIVLLFEEVGQVIKLALRALRDLTRVWSASTTAFLICLIKVL	177
E1 KM408491.1 Pestivirus_Burdur/05-TR	LGKYVCIRPDWWPYETTIVLLFEEVGQVIKLALRALRDLTRVWSASTTAFLICLIKVL	177
	..* :* *****. : : :: : .* *: : * *	

E1 KJ950914.1 Pestivirus_J_NrPV/NYC-D23	GQILQGVILLLLSSAEG	198
E1 EF100713.2 Porcine_Bungowannah	GQPIQAVAWLIIIGGAQA	196
E1 AY781152.3 Pronghorn_antelope_pestivirus	GQLIQGLIWLLLLTGTEA	195
E1 FJ527854.1 BVDV_XJ-04	GQLIQGLLWLMLITGAQS	195
E1 LC006970.1 BVDV_2_KZ-91-CP	GQLIQGLLWLMLITGAQG	195
E1 GQ888686.2 BVDV_2_JZ05-1	GQLIQGLLWLMLITGAQG	195
E1 KX096718.1 BVDV_2_HB-1511	GQLIQGLLWLMLITGAQS	195
E1 JF714967.1 BVDV_2_HLJ-10	GQLIQGLLWLMLITGAQS	195
E1 KT875169.1 BVDV_2_91W	GQLIQGLLWLMLITGAQS	195
E1 HQ258810.1 BVDV_SH-28	GQLIQGLLWLMLITGAQG	195
E1 KT832818.1 BVDV_2_USMARC-60765	GQLIQGLLWLMLITGAQS	195
E1 AB567658.1 BVDV_Hokudai-Lab/09	GQLIQGLLWLMLITGAQG	195
E1 KJ000672.1 BVDV_2_SD1301	GQLIQGLLWLMLITGVQS	195
E1 JQ799141.1 BVDV_1_sichuan	GQVLQGLIWLLLITGAQG	195
E1 AB078950.1 BVDV_1_KS86-1ncp	GQVLQGILWLLLISGVQG	195
E1 JN400273.1 BVDV_1_SD0803	GQVLQGILWLLLITGVQG	195
E1 KX987157.1 BVDV_1_SLO/1170/2000	GQVLQGILWLLLITGVQG	195
E1 LT631725.1 BVDV_1_UM/126/07	GQVLQGILWLLLITGVQG	195
E1 KF896608.1 BVDV_1_Bega-like	GQVLQGILWLLLITGVQG	195
E1 M96751.1 BVDV_1_SD1	GQVVGILWLLLITGVQG	195
E1 KC757383.1 BVDV_1_10JJ-SKR	GQVVGQVIWLLLITGVQG	195
E1 AF526381.3 BVDV_1_ZM-95	GQVLQGVWLWLLLITGAQG	195
E1 KP941591.1 BVDV_1_USMARC-55925	GQVLQGILWLILITGAQG	195
E1 LC089876.1 BVDV_1_Shitara/02/06	GQVLQGILWLLLITGVQG	195
E1 KC853441.1 BVDV_1_SuwaCp	GQILQGILWLLLITGVQG	195
E1 KX577637.1 BVDV_1_SLO/2407/2006	GQVLQGVWLWLLLITGVQG	195
E1 KP313732.1 BVDV_1_Carlito	GQMLQGILWLLLITGVQG	195
E1 FJ040215.1 BVDV_3_Th/04_KhonKaen	GQIVQGVIWLLLITGAQG	195
E1 KC297709.1 BVDV_3_LVRI/cont-1	GQIVQGVIWLLLITGAQG	195
E1 KC788748.1 BVDV_3_Italy-129/07	GQIVQGVIWLLLITGAQG	195
E1 JX469119.1 BVDV_3_JS12/01	GQIVQGVIWLLLITGAQG	195
E1 JX985409.1 BVDV_3_CH-KaHo/cont	GQIVQGVIWLLLITGAQG	195
E1 AB871953.1 BVDV_3_D32/00_'HoBi'like	GQIVQGVIWLLLITGAQG	195

E1 HQ231763.1 BVDV_3_Italy-1/10-1	GQIVQGVWLLLLITGAQG	195
E1 JQ612704.1 BVDV_3_Italy-83/10-ncp	GQIVQGVWLLLLITGAQG	195
E1 NC_018713.1 BVDV_3_LV03/12	GQIVQGVWLLLLITGAQG	195
E1 KJ660072.1 Pestivirus_PG-2	GQVWQGIWLLLLVTGAQG	194
E1 MH410816.1 Pestivirus_PG-2_GIRAFFE	GQVWQGIWLLLLVTGAQG	194
E1 AF144617.2 Pestivirus_giraffe-1_H138	GQVIQGIWLLLLVTGAQG	195
E1 KJ463422.1 BDV_FNK2012-1	GQVWQGLWLLLLVTGAQG	195
E1 U70263.1 BDV_BD31	GQVWQGLWLLLLVTGAKG	195
E1 KF925348.1 BDV_Coos_Bay-5_nc	GQVWQGLWLLLLVTGAQG	195
E1 AB897785.1 BDV_X818	GQVWQGLWLLLLVTGAQG	195
E1 AF144618.2 Pestivirus_reindeer-1_V60-Krefeld	GQIVQGLIWLLLLVTGANG	195
E1 KC963426.1 BDV_JSLS12-01	GQVWQGLLWLFLVTGAQG	195
E1 AF407339.1 BDV_Aveyron	GQLIQGLIWLLLLVTGAQG	195
E1 AY646427.1 CSFV_94.4/IL/94/TWN	GQVWQGVWLLLLVTGAQG	195
E1 KP233070.1 CSFV_GXF29/2013	GQVWQGVWLLLLVTGAQG	195
E1 KC851953.1 CSFV_IND/UK/LAL-290	GQIVQGIIWLLLLVTGAQG	195
E1 AF407339.1 CSFV_39	GQVWQGIIWLLLLVTGAQG	195
E1 FJ529205.1 CSFV_Zj0801	GQVWQGIIWLLLLVTGAQG	195
E1 KJ619377.1 CSFV_Bergen	GQVWQGIIWLLLLVTGAQG	195
E1 KU504339.1 CSFV_GD19/2011	GQVWQGIIWLLLLVTGAQG	195
E1 KM362426.1 CSFV_IND/AS/GHY/G4	GQVWQGVWLLLLVTGAQG	195
E1 GQ923951.1 CSFV_SXCDK	GQIVQGIIWLLLLVTGAQG	195
E1 J04358.2 CSFV_Alfort/Tuebingen	GQVWQGIIWLLLLVTGAQG	195
E1 AY259122 CSFV_Alfort/Tuebingen	GQVWQGIIWLLLLVTGAQG	195
E1 KF669877.1 CSFV_JJ9811	GQIVQGVWLLLLVTGAQG	195
E1 X87939.1 CSFV_Alfort/187	GQIVQGVWLLLLVTGAQG	195
E1 X87939 CSFV_Alfort/187	GQIVQGVWLLLLVTGAQG	195
E1 KJ660072.1 CSFV_Riems	GQIVQGVWLLLLVTGAQG	195
E1 GU270877.1 BDV_H2121_Chamois-1	GQIVQGLIWLLLLVTGAQG	195
E1 KF918753.1 BDV_Gifhorn_genotype-3	GQVWQGLIWLLLLVTGAQG	195
E1 JX428945.1 Pestivirus_Aydin/04-TR	GQVIQGIIWLLLLVTGAQG	195
E1 AF037405.1 Pestivirus_Aydin/04-TR	GQVIQGIIWLLLLVTGAQG	195
E1 KM408491.1 Pestivirus_Burdur/05-TR	GQVIQGAIWLLLLVTGAQG	195
	** :*. *::: ...	

PLEASE NOTE: Showing colors on large alignments is slow.