

A Parvovirinae

C594 TLLLTGPASTGKSLLATKICQLVGNVGCYNASNVNFPFNDSCSNKLIWVEEAGNFGTQVQNFKTIIMSGQSIRLQDK
 MZZ4 GCWINGPANTGKSTMMGSFINHFFPTGVGKPDNSNFPFNNCVNKRVIWEEEPQITNDNIEDVKCLMSGNTFFSTDIK
 YH7D CVKMMGPANTGKTTIMESFITTYFGNNVGRPDNSFFPNSCVNKRVIWEEEPSINPGNVEAVKNIKLVSGGTFSTDDK
 8Pd7 CFFVLIGVSNAGTKVMFIKLENLMINVGRINNINGSFIFENCISCNLISIEECCVVPQWVDDIKRIFGGENNMIDCK
 PorFv TLLFHGPASTGKSI IAQHIAHLVNGVGCYNAANVNFPPNDCTNNKLIWVEEAGNFNSQVNFKAICSGQTIRIQDK
 CMVga3 TINFYGPASTGKTNLAKAIVNAVQLYGCNVHQNKNFVFNDC TAKLICWEEECIMTDDWVEQAKCIMGGTFQFRI DRK
 HepAV TINFYGPASTGKTNLAKAIVNAVQLYGCNVHQNKNFVFNDC TAKLICWEEECIMTDDWVEQAKCIMGGTFQFRI DRK
 PorBv TLLCFYGPASTGKTNLAKAIVQACKLYGCNVHQNKNFVFNDC AAKLIVWVEEALMHNDWVEQAKCILGGTEFRI DRK
 HumanBv TVCFYGPASTGKTNMKAIVQGI RLYGCNVHLNKGFFVFNDCRQLRVVWVEEELMHQDWVEPAKCILGGTECRI DVK
 AA5 TWVLYGPATGKTNIAEAI AHVVPFYGCNVWTNENFPFNDCVDKMLI WVEEGKMTNKVVE SAKAILGGSKVRVDQK
 AAVGo1 TWVLYGPATGKTNIAEAI AHVVPFYGCNVWTNENFPFNDCVDKMLI WVEEGKMTNKVVE SAKAILGGSKVRVDQK
 BovAAV TWVLYGPATGKTNIAEAI SHVVPFYGCNVWTNENFPFNDCVEKMLI WVEEGKMTNKVVE PAKAILGGSRVVDQK
 AleutMDV CIWFYGPAGTGKTLASLICKATVNYGMVTSNPNFPWTDGCGNRNIWAEECGNFGNVEDFKAITGGGDVVKDTK

B Picornaviridae

AichiV PEPVVVYLGGPPASLLAQTLRSQRLAGTCEYFDGYTGQTVHFIDDIQDDEGRDWFANFPNLVSSAPFIVPMA5L
 SenecaV VEPVVVVLRGKSTLIIAQAVSKLSFGRSYDLGDYENQYSVIMDDLGQNDGEDPFCQMVSTAQFLPNMADL
 SaffoldV PEPVVVVLRGNASQIIAQAVSKLSFGRSYDLGDYENQYSVIMDDLGQNDGEDPFCQMVSTAQFLPNMADL
 HumEvd IEPVCLLIRGSPTEG IARAIAADKYHSSPDHFDGYKQVVVIMDDLGQNDGKMSLFCQMVSTVDFIPPMASL
 AvianSV FEPVGMVLHGKPTSIIGRQLCKMMGKGDPHFDGYTGQEVVIMDDLGQNDGKDCALLCQMI STTEFIPPMASL
 HepAV CEPVVVYLGRKRSIALATKICKHYGVESDYWDGYSGLVCI DDIGQNTDEDWSDFCQLVSGCPMLRNMA5L
 AvianEV AEPVLYLYGNRSMATAVAKLCKELGISDFWDGYAGQPVVIMDDLGQSSDEDWTNFCQLVSSCPRLRNMA5L
 EquineRBV PEPVICLLKGRAATVIAKAVSIVNTGKSDFFDGYAGQNVVIMDDLGQNDGKDFRNFQCMVSTVFLFPVADL
 FootMDV PEPVVVCLRGSANVLAQASITSHFTGRPDHFDGYNQAAVVMDDLGQNDGKDFKFIQAQMVSTGFIIPPMASL
 PorTV1 PEPVVVVLRGAPSEMLARMLSYTLVGKTKHFDGYKQAVTVIDDLDGQSDGEDFRLFCQLVSTTECIVPMADL
 HumPv1 VEPGIWQIEGEPHTHLKQKCKSLNSEFMDGYDNQDHLIDDLGQTKKEDIEMLCNCSISVFFIVPM AHL
 DuckHAV PEPGIWISGSPSNYLVKEIAKLLKHWKSKHMDGYVSEIHWVDFDQNEEEDYSLICNLISVFFITPKASV
 O15N SEPVGIFIGGDASNILPRVLKRVGVHEKYWELYDQPPVYVLELLELQVDEEDPMIVLRAINSVRMPINKAHL
 BV10 VNSIYQHLKQKYEI PANESFESHVNDKYLTYNQYVLTIDDLFDQDNC PDINSALNMNISWCSHYTNAQAL
 C141 QEPHIGVLQGGPPNVGLQCLPMPTRYAHQKDFYDAYENESIFYMDDVQGGIAQWRTFINMISRSQIPLGLCS

C Picobimaviridae - segment 1

HFV_s1gp2 TRLPFI GVMCVNFTTPGESYKNKSPINIAAQNVYTYVRHMNSGHANYEQ
 HFV_hypo ANVFPAGNASIMYLPSPGISTTVLDGLSMAANQLYAVVRKSNSSGAKYV5EA
 5FK8 ASFPYLVGLIMNVIPTIGNSFDVTLVINVASINTYTKIRHDSNGHANYD
 C530 GSI5FVGMICITIKYKPSVGYSTYGHASVNMARNLYSFVRHANSAGHTNYDA
 BHEW TSDIYGVMSFSHYSRFICELWNDPINVANAAYISVFLRQANSCKANYDA
 XC64 ITSDGGSCMIRFVPTGYDFDLXLVGNIAASTAVLWHRHANFGSGCNYDV
 8ATT SGM5YVGMILAMLPFGI IDEWFDLVNIAIRDKYMFIRYANLGYFNVDV

segment 2

HFV YPGISAEDVMQSYSRHGLDMNLEKQYVSKQDCTYLRRWHHTDYRVDGMCGVYSTMRALG
 BPV FPGIQVEDVMQYATSHGLEMNETKQYVSKHDCVFLRRWHHEDYQIAGCEGCVGYSTYRALG
 HPvh YPGITADKVMRSYTHGLEMNETKQYVSKHDCYTLRRWHHTKYRVDGCVGYSTYRALG
 HPvb YPGITVDDVRSYSSHGEMNPKQYVSKQECTYLRRWHHTQNYRVDGCVGYSTYRALG
 HPve YPGINVDVVDYSAHGQEMNTPKQYVSKHDCYTLRRWHHEDYRISDVCVGYSTYRALG
 HPv1 FPGITVEDKVVDTYSAHGQEMNPKQYVSKHDCYTLRRWHHTDYRVDGCVGYSTYRALG
 HPvj YPGITVEDVMQYATSHGLEMNETKQYVSKHDCVYTLRRWHHTKYRVDGCVGYSTYRALG
 HPvk YPGISVEDVMQYATSHGLEMNETKQYVSKHDCYTLRRWHHTQNYRVDGCVGYSTYRALG
 HPvm YPGISVEDVMQYATSHGLEMNETKQYVSKHDCYTLRRWHHTQNYRVDGCVGYSTYRALG
 HPvI YPGINVEDVTVQYSAHGQEMNTPKQYVSKHDCYTLRRWHHTDYRINDVCVGYSTYRALG
 HPvJ YPGITVEDVTRSYSAHGQEMNPKQYVSKHDCYTLRRWHHTDYRVDGCVGYSTYRALG
 HPvd FPGITVDKVDITYSRHGQEMNPKQYVSKHDCVYTLRRWHHTKYRVDGCVGYSTYRALG
 HPvc IADMSAEQLVDYLGKFLPANPTKQYVSDNTDLTFLQRMNVGFFSSNTLGAFFYPTIRGLN
 HPvk LAMDAKEVVDYLGQYGLPANPTKQYVSGTETLTFLLQRYFRQGFVSGGVGAYYPTIRALN
 VZ58 YPGITADNVMQYASHGQDMNLKQVHVSKHDCYTLRRCHQDDYRIKVCWAGVYSTYRALG
 DMYI YPGIKVDVDDVYTAHGQEMNPKQYISLRDCVYTLRRWHHTDYRVDGCVGYSTYRALG
 C108 YPGCRVEDVMQYATSHGLEMNETKQYVSKHDCYTLRRWHHTDYRVDGCVGYSTYRALG
 C98 FPGCSVEDVMQYATSHGLEMNETKQYVSKHDCYTLRRWHHTQNYRVDGCVGYSTYRALG
 C586 YPGITVDDVRSYSSRGLMNPDKQYVSKHDCYTLRRWHHTQNYRVDGCVGYSTYRALG
 C477 YPGIDVEAVMQYASHGQEMNPKQYVSKHDCVYTLRRWHHTDYRVDGCVGYSTYRALG

D Dicrostoviridae

BQCv GVQMLREKVQCEIEAAQKGLIFDITLKDERRKPKHAKHSRMFSNGPIDYVWSKMYFNPIVAVLSELKN
 HFV KAILLRQQVEEII SQALGVRQFIDITLKDERRKPIHKAHTRMFSACPLDYIACKMYFGGVSLVQKSRN
 TV LAVELEEKVEIHEDLAQGVRYFDALDKDERKPREKAHKTRAFSGCPLEYAVCKMYFQGI VSVLTKCKN
 PSIV LALDLRQVHEHIESLADGISFIDITLKDERRKAEKAKHTRLFSASPLPYILCRMYLQGGVSRILIRGI
 HCV RAGPVRERCAKIIDLANNERYFIDITLKDERRKIAKWKTRVFSACSQDYIACKQYQGI VGLLTRHRI
 DCV YALALRQVHEQLIEDCSGKISFVDITLKDERRDIAKVVNTRVFSAGPQHFAFRKQYFLFFAAWLMHNR
 CPV RAQELRRDVEELIDNCKGI IKFVDITLKDERRPIEKVDATRVFSAGPQHFAFRKQYFLFFAAWLMHNR
 KBV LNEDEVLAQVRLQAAEGRKLWLDITLKDERRPIEKVNQTRVFSNGPMDFAFRMYLGLFIAHLMENRI
 IAPVB LNEDEVLAQVRLQAAEGRKLWLDITLKDERRPIEKVNQTRVFSNGPMDFAFRMYLGLFIAHLMENRI
 ABPV LDEDEVFAVKTRIQANAGVTRWVDTLKDERRPIEKVDQTRVFSNGPMDFAFRMYLGLFIAHLMENRI
 SIV IDPDVMQVQVHERIENAQGI RTWVDTLKDERRPIEKVDATRVFSNGPMDFAFRKQYFLFIAHLMENRI
 ALPV ACKQLMADVDELQAQCMNDVRPIDITLKDAPKIPAKANVTRLEFTAACPLHYILFRQYFLFIAHAMRNR
 RFPV YAVALRADVDKLETDINGTRPWTDTLKDQKIAI AKANATRLFSAAPMHYIALRKCVPAFVAHLSRMR
 TSV DLKEHVEKIVDKAKDGI VDVSPAATLKDERRPLKVKQATRVFAASNQGLLALRRYLSFDLHVMTNR
 MCDV ELKEHVELIISKARKGIVDTEFTATLKDERRPLAKVEATRVFAA TNQALLAQRYYLSYLEHVMILNRV
 C1027 KAQEMKTI VQDQVNGMKGGFVFTDTLKDETRPIEKVMETRLFAAAPMDFIVFRMYFMSFLAWMMNRNI
 C822 KAQEMKTI VQDQVNGMKGGFVFTDTLKDETRPIEKVMETRLFAAAPMDFIVFRMYFMSFLAWMMNRNI
 C982 KLNRLKRVKQVQVEEMGLYQVFDITLKDDETLPKMKVEITRVFAAAPMDFIAFRMYFMSFLAWMMNRNI
 GAS3 KALELRAIVDQLRVDCEMNGVITCADTMKDERRPIAKVETRMRFSACPMHFVLSYTYGFAFIIMHNR
 QUOG EAQQLRADVDELIEDCMVRFRFSLILKDERREKAKVDVTRVFSAGPQHFAFRKQYFLFFAAWLMHNR
 ZM5I KRSNLRADVDELIEDICIGKISSLILKDERREKAKVDVTRVFSAWSSTRFVGSQVLSFFAAWLMHNR
 A2AD MALEVERVGLGLQDCDGIQRWSDITLKDERRPIAKVDATRVFCGGPVHILFRQYFLFAAWIMHNR
 C1164 DLNIAITDFENKVKLEGLIPNFFIDQTKDERRPIAKVQATRMFAIGNMTLVLIRQYFSWFDSEMKKQLI
 C1018 DLNIAITDFESKVKLEGLIPNFFIDQTKDERRPIAKVQATRMFAIGNMTLVLIRQYFSWFDSEMKKQLI
 C849 DLNIAITDFENKVKLEGLIPNFFIDQTKDERRPIAKVQATRMFAIGNMTLVLIRQYFSWFDSEMKKQLI
 C994 DLNIAITDFESKVKLEGLIPNFFIDQTKDERRPIAKVQATRMFAIGNMTLVLIRQYFSWFDSEMKKQLI