

AdorGV	-----MEDAPYKMAIADKRKNPIHEELAKRYSQNFINNISNANQRISHDDIMVLEKCTRQSDNLWQLLRVNRSTAS-GSAVSEYDIDSIPAIRYKG
ChocGV	-----MAYELAV--SENVLNNQELLYAECYCLQKYVKRLT-LTHRNTKEEIMALEHATRGQTNNMLWKILRINRTTASGGNT---FFEGSTPAMRYGI
CrlegV	-----MAYELAV--AEGMTDQLLEFAKKFSLQNYVKTLT-LEHRNSKEEILKLEESTRGQSDNLWKLRLRNRTDASCSS---YCGNNNPAMQYGI
CpGV	-----MAYELAV--MEDVMSDVQLELARKYSMQNYVRTLT-LEHKNSREEILQLEEAUTRGQSDNLWKLRLRNRTDASCSS---YCGGENVAMEYGL
EpapGV	-----MHEFNES-LTAEQNRLADKYCLQNYVSNLT-LDYRNSKQEIEFELEKAUTRGQGENELWKLLRINRTTAS-NSGHAFYGGENEAMRYGL
PhopGV	-----MSYEF-FQDCMTPEQJMLAKKCYCLQNYVRSLKSVDRHNTPEEKOLEIAUTRGQADNLWKLRLRNRTTASKSTG---CFVEDSPAIQFGK
PiraGV	-----MAYELAV--SEGGMSDEQLGFAKKYMLQNYIKTLT-ESHRNTEEIMELEKAUTRGQAKNVLWKLRLRNRTTASGTSGG-FYGETTPAMKYGI
AgseGV	-----MDLSNCG-FTDEOLKMAQKYMENYVTKLK-PGHKNTKEEIFELE-ATRGQCKNNLWKLRLRNRTTAT-KSTGSSFYGES-VAMKYGI
HearGV	-----MEQTRHTERVITMRFQNYPTYKYKRVSRDNSSVFLGTAYAMDSSNNQ-SNLAMNEYEQQLCDKYSYSNYVARLO-PGHVNTREEIFALERATRGQSNNALWGVRLRNLRTASNRCNSFVSDKNEAIRYGN
PlxyGV	-----MADK-LTGYZCGLSDKYCLENYASRLT-AAHRNTKQEIELEKAUTRGQSKNNLWKLRLRNRTTAS-KST-YFSGDT-EAMRYGI
PsungV	MRTE SAVATTYCRMMDRTRLTERVITVRFQNYPTSNITAFFTINRLHFEPAYTMDDNNSSDPQLKLLAMEYELQLCDRYSYSNYVARLK-PGHINTRKEEIFALERATRGQSNQNALWGVRLRNLRTASNLSGCSNFVSDNNEAIRYGI
SpliGV	-----MEEKSNSEF-FTPQEYRLVLYKRYDLYITNLK-RGHYNTREEIFLEKAUTRGQSSNNLWRLLRNRTTAS-QSTCSAFNFET-EAIMYGN
XcGV	-----MEQTRHTERVITMRFQNYPTYKYKRVSDQNNSVFLGPAYAMDSSNNQ-SKLAMNEYEQQLCDKYSYSNYVARLO-PGHVNTREEIFALERATRGQSNNALWGVRLRNLRTASNRCNSFVSDKNEAIRYGN

AdorGV	IKEKALKNDNLISTIKDGIEDYTNAKRVETVLDGMFLSSIGFYASPDAYFKLEDGSMVMEIKCPYSYKDDTIKDIRNRFNTNRARYRIPNTAFSINRHGEDIFVCVEAQONNHYROMQQLQMYATGALLAVYVKFRDMPEVHFVKR
ChocGV	CNETILKNNKAIINTITEREKKLGKVVENVLDGFLFITDGLYASPDGYFKLETGEVVLEIKCPYTYRNKTEQIRREKNTRGAYRVEHTALLVNRNGP-LHVTTERNEHYROMQOSQIVTNAIMAVYMKFSDMPTEHFVEKN
CrlegV	KQEKLKEDKLIIDTVDRKIEKKKKKIEEVLDGFLSTIGLCSASPDAYFILENGLVVEIKCPYNYRNEFSKSVIQQLGSKRK-RIAHTALKRVSHDP-LIHIEQRNNHYRQIQSOLYVTGAVMAYVLVKFSDKCDIHLVERN
CpGV	RNEKKLKKDNIVMGIIVERVEEKLNNKVAQVLECGFLSDIGLYASPDAYFVLDSGEVVLIEIKCPYTYRNDTFQSVLQQLDGRRS-RVARTALKRVSKQP-LILKVEQRNLHYROMQOSQLYVTGAVMAYVMKFSDMPEIHFVER
EpapGV	DNEKLKKQNAQQLDILVCAIEHKTQKVVERVLDCGMFITEGLGLYASPDAYFLLENNAMVMEIKCPYTYRSETLFTIRDKFNN-RNRYRVPHTAFSVNRHGEYLNVLEVKNNNDHYROMQAOQMVTNAFAVYVMKIGQDHFMHVERD
PhopGV	NGERDLKQNTTELIDLVCQKIEQTKGKIVEKVLCEGFLSPGLYASPDAYFVLDDGNLVVEIKCPYTYREDTLESVRHRMNSTRTRYRVAHTAFSRSRNGA-MNVRVEKQDNHYRQIQSOLYSTNAVLYMVKFVDFPEIHFVERD
PiraGV	DNEKLKKNNKIVMSIIREGVEKKLKEIIEEVLDGFLSEIGLYASPDAYFRLDNNDLVLVEIKCPYTYRNETLESIRLKMNSSRSRVPHTAFSVNRHDT-LHVANEVKRNDHYROMQAOQLYVTGAVMAYVMKFSDMPEIHFPVD
AgseGV	EQEEWIQOQKHIMDAVCEGIEGKLKKKVKERVLNCGLFLSPGLIYASPDAYFVLENEVVLIEIKCPYTYKSDSMETIRRGFNN-RSRYRIPHTAFSINKNGP-IDVRVEKKNDHYROMQAOQLYITGAVALVYLVKIGDVPEIHFVERD
HearGV	EQETVVKKNQLLMRTIEKIEEKLSCDITETVLDGMFISPIGLYASPDAYFVNEQGQIIVLEIKCPYTYKDTNLESIRRNLNNNKARYRIKHTAFTINKQGP-IEVRVEKKNDHYRQLOQSQMYVTGAVLGVLVKGIDTEEVFVERD
PlxyGV	EHEDELIKNCIVMDVLCAELENKLNASRVERVLECGFLTEGLFSASPDGYFVLDDGRLTMEIKCPFTYKDSSLEQIISGFNN-RSRYRIPNTAFSVNKTPG-IDRVEEKLNEHYROMQOWQMYVTGAVLGVLVKGIDTEEVFVERD
PsungV	NQEVVKVKNQLLMLRAIKEKIEEKLDCVVTQTVLDCGMFISPIGLYASPDAYFVDEKGQIVVLEIKCPYTYRNTLCSIRNSFNN-RARYRIPNTAFSINKQGP-IDRVEEKKNDHYRQIQNQMYVTGAVLGVLVKGIDTEEVFVERD
SpliGV	RNENVKQNEELLRMHIGEEIEHCLGKSIEKEYVANCMGFISKMGFIHSASPDAYMLDDDNIVVLEIKCPYTYREKTLTSIRNSFNTNKSIRNTAFSINRSGP-PFVKEEEKNTHYRQMAQMYVTGAVMAYIVLIGQTPVEHFVERN
XcGV	EQETVVKKNQLLMRTIEKIEEKLSCKITETVLDGMFISPIGLYASPDAYFVNEQGQIIVLEIKCPYTYKDTNLESIRRNLNNNKARYRIKHTAFTINKQGP-IEVRVEKKNDHYRQLOQSQMYVSGAVLGVLVKGIDTEEVFVERD

AdorGV	SKFIQRVYNQEMNKLNRVQSYKLQS-NMNTLAARMITYNRTNEFDTSARLLAEAGMYS CDGNSVRCYICKSTYETADRSVESILSEHDN-LCN--VPKT--QAMHNSYLNIVDRINNLHQTN-LFLYEECQRLAQEGFVLIN-STT
ChocGV	EQYSKEMRHKELAQKOMYVNENKRSQ-IMIMESERLKTFTNT-NFKTGLAAALACDMYYWCG-NVVCYFCCQQFEIVDKLLEEILEEH--ECNKEGNISMGFVTHPRYLNRFDRINSLRKTK-ENVVRIEELADKGFFYD--GSK
CrlegV	ESYIKELADKERFRLNMIIKENNRNK-KFTLEVHRLDSFKNS-GYDEEIVKQLAKNGLYWCWG-NVICFFCGQHFEINEKTIQQILNEHDNENC KGDNCMS-TNVYKRYLNIFDRINNLNEQ-TLSLSEIRDIAKGGYYND--GNK
CpGV	EAYIKGLADRERMKLEMVYKENKRNK-VMSIERERVNSFRGS-GYAREMVERLAREGLYWCWG-NVICYFCQQFEVDNKSIEEVILGEHKEQCDRTNNVSA-VRVHDNRYLNFDRINNLHVTTLSSVERRQLAKGGYYD--GNN
EpapGV	NEHINKMKKKELAEFKNYTNQNNSYR-CMIKEQSRYASFDS-AVEEQMRRLAKNGLYLNKG-VITCYFCKSQFEINN-AIN----HD--CGTKQDNVIYINVNDNISYINERDRIDNLLNSAN-YCREQATALAKSKFYW--DGTQ
PhopGV	EKYIRDLAERERIRLKIVYDENKRNS-VMVSECCRKLFSFEGY-GYNEHLIKSLARDGLYWCWG-NVMCYFCQQQFEIIDKNADQILAELHN-LECTKLENIAI-STAAHPYELNVRHDMHNLSSEQ-LFNSVDCEKLAKEGFFIDQ--NNK
PiraGV	EKFIKELADRELKMYANENKRSQ-IMVMEKERLKSFGGS-GHADKIA RLAKNGMYCWCG-NVICFFCKQQFEIIDKSIDIILEEHN-KECNRQENISM-VEVGHERLVNFDRINNLNTQ-KYSLIEEELAKGGYFYN--GSR
AgseGV	IKQIQLKDREREFFNNHVRDNSRRNNYLVLERNRKKTFPQNQAYSEEKSLLARQGFYNNQG-CVVCYFCCKSKYETST-PFLEMT--HS--NCD-KTDNISHWDIKFFNYINQKDRVNNLNKCYSDYQCIELANGFFYD-PSDNT
HearGV	EEMINDYANNEKSDLKEILSENAKHM-EFVMERNRLFSFYSLPNVKNEENIKKLARDGFYWWNG-CVKCHFCQKHVELEN-DVDNILAQHV--CNSKGHNVRYADI KHRKYLTLQSRINSFIPLNI-DTT-LALELAKLNVFVA-DDNN
PlxyGV	EKLTKEIGERELNEFNRIVSDNNKKK-YLLMEVNRLKTFDSD---ASTDSKLLAKNGFYQWYG-QIICYFCNLKYELDM-GVAAILDNHK-LCD-KTNNVKLISIAHPSYIKLQKRIDSITSTG---DRVELAQRGFFE-QNGV
PsungV	EEMIDKFAKNEDSELKRVLSENAKHM-EFVMERNRLFSFYNSPNIKNDIVKKLARDGFYWWNG-CIKCHFCQKHVELEN-GLDNILAQHV--CNSKGHNVRYADI KHRNLYLTQSRINSFSRLNI-DST-LAQELAKLNVFVG-DDNN
SpliGV	ASVIQELEAKEKKDYTNYIINNERCR-MYVMEKNRRESFKDCELSK-AAILKLSRSGFYHFG-KIICYFCRVQVELER-GVDNALLQHAP-DCN-KEGDLRHAIFKYPRYFSKDIKEQSLDRHVS-D--KQTAAKNNLFC--DGSK
XcGV	EEMINDYANNEKRDLKEILSENAKHM-EFVMERNRLFSFYNLPNVKNEENIKKLARDGFYWWNG-CVKCHFCQKHVELEN-DVDNILAQHV--CNSKGHNVRYADI KHRNLYLTQSRINSFIPLNI-DTT-LALELAKLNVFVA-DDNN

AdorGV	PELYCCGG-----KDGHHQTCYKTQERKRIIESGS-
ChocGV	LVLYCCGGKDLLGKERHTDQCKKKEN-----
CrlegV	FVLYCCGG-----EKLHSNECKA-----
CpGV	LVLYCCGG-----ETTHKPECHKGQ-----
EpapGV	LRLYCCGQT-----DLHAPNCS-----
PhopGV	LVLYCCGN-----EQDHDNACTKATQN-----
PiraGV	LAFYCCGE-----QETHKNDCYKIQQ-----
AgseGV	LKLFCGGEI-----DKHSQKCDKNGGETSN-----
HearGV	LKYCCATTIS---DDKINQEC-IKATVINCPSVDCDRY-----
PlxyGV	LSLFCCGG-----AVHNQDCRYEEM-----
PsungV	LKYCCSTVIS---DDKIDQOC-IKDVVKNCAHSDDCDRY-----
SpliGV	IALYCCGNVIK---SDLAESPFDIKDLLNIVHTDCERF-----
XcGV	LKYCCATTIS---DDKINQEC-IKATVINSPSVDCDRY-----

Multiple alignment of Betabaculovirus Alkaline Exonuclease. Multiple alignment were carried out with ClustalX v.1.64 using default parameters. Columns shaded in light blue correspond to identities and columns shaded in light orange correspond to conservative changes.