

AOP1 1 MWELR SASFWRAIFAEFFATLTLVFVFGSLGSSLRWAPGP LHYLV
 AOP2 1 MASEFK KKLFRVAVVFAETLTLTLVFVFGSLGSGALGFKYPVGNNOATVQDNNK
 AOP3 1 MWELR SIAPFSRVVFAETLTLTLVFVFGSLGSSALNWPQAL PSVLQ
 AOP4 1 MGRKPLVSR CGEMHL IRYPLGQALGFLTLTLVFVFGSLGSGAQVWLSB GTHGGTL
 AOP5 1 MSDRPTARRWGKGPLCTREINIMVAFKG VWTQAFHKAVTAETLALIFVLLSLGSGTINWGGE KPLPVQDWLV
 AOP6 1 MKKEVC SVAFILKRVFAETLTLIFVFGSLGSAKWPSAL PTILO
 AOP7 1 MDAVEPGGGRGWASMLACRL WKAUARVFAETLATSIFVFGSGVMRWPTAL PSVLQ
 AOP8 1 MSG-EIAMCEPEFGNDKAREPSVGGRRW VSMYERVOPCLVELLGSALFIFIGLGSIVENGTD GLLO
 AOP9 1 MOPEGAEGKGSFKORLV LKSSIAKETLSEFLGTFILILVLGGCGVQAAILSR GRFGGVIT
 AOP10 1 MVFTQPAEPI-MGHLR IRLSLAQCLLGEVFLMLTLTGCAVQAQVTS ETKGNFT
 AOP11 1 MSPLLGLRSLQDQDTCSLGLLMSVLLMGLAR VVARQDQCLLGEVFLMLTLTGCCTHEMLLSEQ HPAH
 AOP12 1 MAGLNVSLSGFFATFALCEAR QASKALPGVAEFLGEVFLMLTLTGCCFLEMLTLVEIGL-PWAGDG
 AnpZ 1 MFHKLAAEFGTFVFLVFGSGSAVLAAGFP ELGIFAG
 GlpF 1 MSQTS TKGGCCIAELGTLGLLIFESVGVCAALKVAG ASFG-QWE

 AOP0 44 VAMAFGLALATLTLQSVGHISGAHLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP1 52 VSLAFLGSLATLTLQSVGHISGAHLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP2 44 IMAAFGLSITGLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP3 59 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP4 44 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP5 45 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP6 58 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP7 70 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP8 68 PALAAGLALGLVTLATLGNISGAHLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP9 60 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP10 58 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP11 75 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AOP12 69 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 AnpZ 39 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT
 GlpF 44 IIALAGLAVTLTLQALGVSGAHNLNPAYTIVAGFLVSGSMSLRLAFACVMAADLGLAVAGAAVLYVSTPPA VRGNLA LNT

 AOP0 121 IIPHAVSVGGQATVIFLTLTQ FVLCVFATYDERR-RNGQLGSSALAVGFLGSLALGHLFG-MYITGASNNPNSAFAPALITGNFT
 AOP1 129 LDAGVNSGGGLGIFLTLTQ FVLCVFATYDERR-RDRLGSGSAPLALGSLVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP2 121 LSNSTTAGQAVTVIFLTLTQ FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP3 146 IFATYTPSGHLDIMVFDDQFIGTASL FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP4 121 LNNNTTGGQAVTVIFLTLTQ FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP5 122 LNNNTTGGQAVTVIFLTLTQ FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP6 135 VRNSVSTGDQAVTVIFLTLTQ FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP7 157 IFATYTPSGHLDIMVFDDQFIGTASL FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP8 148 VDEGQYVAGALVAVIFLTLTQ FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP9 147 IFATYTPSGHLDIMVFDDQFIGTASL FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP10 145 IFATYTPSGHLDIMVFDDQFIGTASL FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP11 153 FACKNPTRVDLLKAVITAEV FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AOP12 149 QGSSALRLVPHGAVAEAA FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 AnpZ 121 VGHSPGGGSMLSALVELVLSAG-FVLCVFATYDERR-RGENPPTGALSGFLSVAGHLLA-IDYTGCGINPARFSGSAVITHNFS
 GlpF 134 TFSTYPNPHINFAVEMVITAILMGLLALTDGNGVPRGPLALLLGLLAVIGASMG-PLTIFGASNNPNSAFAPALITGNFT

 AOP0 199 NHVYVWVGFGGALAVLAVLIDFLFP RLKSIER-LSVLKG AKPDVNSNGOPE
 AOP1 207 NHVYVWVGFGGALAVLAVLIDFLFP RSLDTR-VKWTSS GOVEEYDLAD
 AOP2 199 DHVYVWVGFGGALAVLAVLIDFLFP PAKLSER-LAVLKG LEPTDVEEREV
 AOP3 235 VFTTGG-HWVYVWVGFGGALAVLAVLIDFLFP HLEG-PPPSNEEENVKL AHVHKKEOI
 AOP4 207 NHVYVWVGFGGALAVLAVLIDFLFP RSLDTR-VKWTSS GOVEEYDLAD
 AOP5 201 DHVYVWVGFGGALAVLAVLIDFLFP PAKLSER-LAVLKG LEPTDVEEREV
 AOP6 211 VHVYVWVGFGGALAVLAVLIDFLFP DTKTALQ-R-LALITGT VEVGTGAGAGAE
 AOP7 246 VFSNGE-NWVYVWVGFGGALAVLAVLIDFLFP TIPREPLKLEDSVAYED-HGITVLPKMGSHPTISPLTPSVS
 AOP8 225 FHVYVWVGFGGALAVLAVLIDFLFP HPEGEPAQDVLVSAQH KASELETASIMOALECK
 AOP9 236 VFRAGN-NWVYVWVGFGGALAVLAVLIDFLFP HPEGEPAQDVLVSAQH KASELETASIMOALECK
 AOP10 234 VFSAGN-GWVYVWVGFGGALAVLAVLIDFLFP HPEGEPAQDVLVSAQH KASELETASIMOALECK
 AOP11 233 EQFTVYVWVGFGGALAVLAVLIDFLFP LFGNRLFYGQKNKYRAPRG KPAPASDGTTPAKGSSVR
 AOP12 229 NHVYVWVGFGGALAVLAVLIDFLFP RLKSIER-LSVLKG AKPDVNSNGOPE
 AnpZ 202 NHVYVWVGFGGALAVLAVLIDFLFP RSLDTR-VKWTSS GOVEEYDLAD
 GlpF 223 AFTGGRIPIYFLPLFSLVAGVAGAFARKLIGR HLPDCICVVEEKETTP SEQKASL

 AOP0 251 VTGEPVELNTOAL
 AOP1 259 DINSRVEMKP
 AOP2 252 RRRQSVELHSPQSLPRGTKA
 AOP3 292 DVDRGEKEKKGQDSGSEVSSV
 AOP4 255 ERKKTMEITLR
 AOP5 256
 AOP6 255 PLKESQPGSGAVEMESV
 AOP7 320 SPANRRSSVHPAPPLHESMALEHF
 AOP8 261
 AOP9 256
 AOP10 301 L
 AOP11 271
 AOP12 295 EPGRSGEVGHSS
 AnpZ 221
 GlpF 261