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|                                             |                                                                                      |    |
|---------------------------------------------|--------------------------------------------------------------------------------------|----|
| NTDB id 1029 TT RS02230 WP 011228203.1      | MAK                                                                                  | 65 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | .....MPVYQYKARDRQGRLLVEATTEAEDLRTAARLLRDRGLFVAEIKKEPGKGLQAEVRIPALERGPGGLK            | 67 |
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | .MKT.....IAPQLKNYRWKGINSSGKK.TSGNVLAMTEIEVRRERLDAQHIKIKKKLKKGSISFITK.....ISHRVKKGK   | 68 |
| NTDB id 1113 AAA85695.1 219..1451( )        | MKAT.....QTLPLKNYRWKGINSSGKK.VSQQLAISIEIEVRDKLKDQHIQIKKKLKKGSVSLAR.....LTHRVKSK      | 70 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | .MAKNGGFSLFAKKEKRFIFEGRHSASDKLVNGEVSATFEEEARKKLAKRGIRPLQITRVK.....T.....SSKRKITQE    | 70 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | .MAKNGGFSLFAKKEKRFIFEGRHSASDKLVNGEVSATFEEEARKKLAKRGIRPLQITRVK.....T.....SSKRKITQE    | 67 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | .MDK.....NSPPLILTFFHYQQGINKAGQK.MEGDIQARS LAIAKADLRKQGIVTNKVVKRKPFLFDR.....KNKKKITQA | 69 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | MAAK.....KTQVMPVFAFAYEGVDRKGKIK.LKGELPARNMALAKVTLRKQGITRTIREKRKNIFEG....LLKKKVVKPL   | 69 |
| NTDB id 225391 B7W86 RS27205 WP 003094649.1 | MAVK.....KAQMMPTFAYEGVDRKGKIK.LKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEG....LFFKKKVTTTL   | 66 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | .MAD.....KALKTSVFFVWEGTDKKGKTK.VKGELSSQNPTLVKAQLRKQGITPVKVRKKGISLLG.....AGKKIKPM     | 66 |
| consensus                                   | .MAQ.....KAIKNSVFTWGLDRQGAK.TKGELSGVSPALVKAQLRKQGINPQKVRKKKSISLFS.....AGKKIKPM       | 66 |

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|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1029 TT RS02230 WP 011228203.1      | DITIFTRQLATMAGYPLVQAFIVAEHNPMBRELLMEIKVEGSSSALRKHPQYFDLYCNLVAGFEQSGI               | 144 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | DLAIFSRQLATMLGAGLTLLQALAILERQTEENRKFREILKQVRTDVEGGMAFSEALS KH.KIFSRLYVNLVRAGETSGGL | 147 |
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | DITIFTRQIATMLMTGVPIVQALKLVSENHKKAEMKSILMSVTRAVEAGTPMSKAMRTASTHFDPLYTDLIATGEQSGNL   | 148 |
| NTDB id 1113 AAA85695.1 219..1451( )        | DITILTRQLATMLTTGVPIVQALKLVGDNHRKAEMKSILAQITKSVEAGTPLSKAMRTASAHFDTLYVDLIVETGEMSGNL  | 150 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | DITVFTRQLSTMINAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGVL   | 150 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | DITVFTRQLSTMIKAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGVL   | 147 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | DITVFSRQLATMIESGIPLVQAFDIVAKGQSNKRLKDLIETIKHDIETGLTLAESLIKHPLYFNELCNLDVAGEKSGSL    | 149 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | DIAIFTRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVLGLKNEVEGGNTFAGALRKYPQYFDNLFCSLIESGEQSGSL   | 149 |
| NTDB id 225391 B7W86 RS27205 WP 003094649.1 | DITIFTRQLATMMKAGVPLVQAFEIVAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNLFCSLIESGEQSGAL   | 146 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | DIALFTRQMSMTMMAAGVPLQLSFDIISEGFDNPNMRKLVVEIKQEVAGGNSLANSLRKKPKQYFDSLYCNLVDAGEQSGAL | 146 |
| consensus                                   | DIALFTRQMATMMKAGVPLQLSFDIIGEGFDNPNMRKLVDDLKQEVAAAGNSFASSLRKKPKQYFDDLYCNLVDSGEQSGSL | 146 |

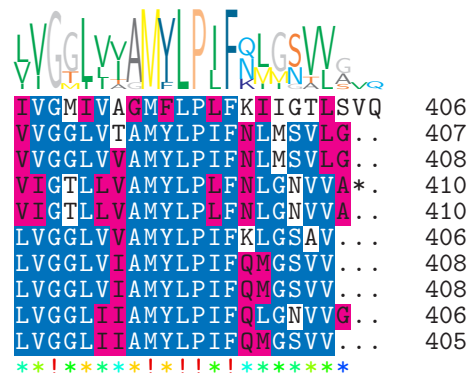
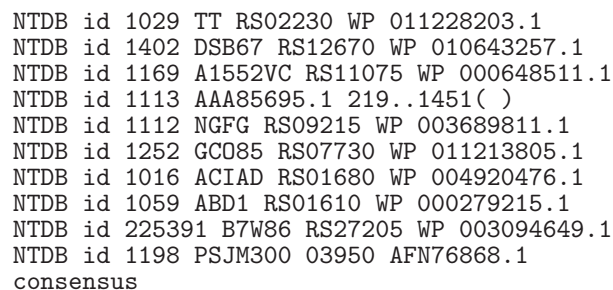
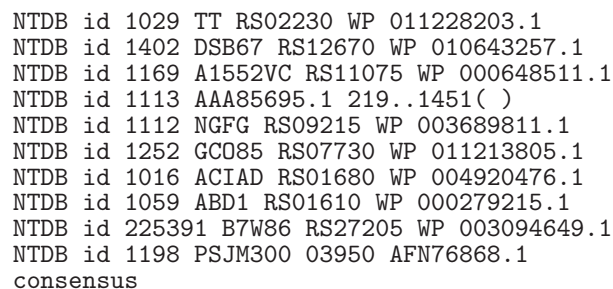
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| NTDB id 1029 TT RS02230 WP 011228203.1      | EILLDRYAYKYEKTELRKIKKAMTPYVIVVAVAGVYLLLTGIVPQFAQILTDLGSSELPLLTRFLIAVSDLLRAATL       | 224 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | DLILDRLASFLKELELRGKIRSAMTYPVIVFVFAVGVAFLLTGIVPQFAQILTDLGSSELPLLTRFLIAVSDLLRAATL     | 227 |
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | SQVFERLATYREKSEQLRAKVIKALIYPAMVVLVALGVSYLMLTRVPIPEFEKMFMTGFGADLPFTQMVNLNSAWTQNWGP   | 228 |
| NTDB id 1113 AAA85695.1 219..1451( )        | PEVFERLATYREKSEQLRAKVIKALIYPMSVVLVALGVSYLMLTMVPIPEFESMFKGFGAELPWFTQQVCLKLSHWVQAYSL  | 230 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | ESLLDKLAIYKEKTQAIRKKVKKTALTYPVSVIAVAIGLVFVMMIFVLPAPFKEVYANMGAELPALTQTVMDMSDFFVSYGW  | 230 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | ESLLDKLAIYKEKTQAIRKKVKKTALTYPVSVIAVAIGLVFVMMIFVLPAPFKEVYANMGAELPALTQTVMDMSDFFVSYGW  | 227 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | DIMLDKVATYKEKIEIKKKIKKALTYPVAVMVVALLVTAGLLIYVVPQFESLFKGFAGDLPAMTRAVITMSEFMQAYWY     | 229 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | EIMLDRVAIYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFGADLPFTQVNVNMSNMWQDYWF     | 229 |
| NTDB id 225391 B7W86 RS27205 WP 003094649.1 | ETMLDRVAIYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVVFQDLFASFGADLPFTQVNVNMSNMWQDYWF    | 226 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | ETLLDRVATYKEKTEALKAKIKKAMTYPIAVIVVAIIVSAILLIKVVPVQFQSVFEGFGAELPAFTMMVINISNVLQEWL    | 226 |
| consensus                                   | ETLLDRVATYKEKTEALKAKIKKAMNYPIAVVVLVAVIVTAILLIKVVPVQFQDVVFANFGAELPAFTLMVIGLSEALQAWWY | 226 |

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NTDB id 225391 B7W86 RS27205 WP 003094649.1
NTDB id 1198 PSJM300 03950 AFN76868.1
consensus

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- X non conserved
- X similar
- X > 50% conserved