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| NTDB id 1292 VP RS12235 WP 005479693.1      | ...MKHSKQKKQKQGFTLIELMIVVAIIGVLA AAAAIPAYQNYVTRSEVTSGLATVKALITPAELHYQ.ENGIAAAA..... | 71 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | .....MNAKQKQGFTLIELMIVVAIIGILA AAIAPQYQNYIAKSQVNSGFSEISSIKTGYENAVN.EGAVPTKLSDV..    | 69 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | .....MKAQKQGFTLIELMIVVAIIGILA AAIAPQYQNYVARSEGASALASVNPLKTTVEEALS.RGWSVKSGTGTED     | 71 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | .....MKAQMKGKQGFTLIELMIVVAIIGILA AAIAPAYQDYTVRSNAAAALAEITPGKIGFEQAIS.EGKTPSLTSTDE.  | 72 |
| NTDB id 1204 PSJM300 03935 AFN76865.1       | ....MKPVKSSCRGFSLIELMIVVAIIGILA AAIAPAYQNYTVRSTAASALAEITPAKAAFEQAIS.EGHTPSLVSSLP.   | 74 |
| NTDB id 1191 AAC28468.1 484..945( )         | .....MLKKVKQKQGFTLIELMIVIAIIGILA AAIAPAYQDYTARAQATEGFKATAGLQTDLGAWRADRGSFNAAALVAG   | 74 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1   | .....MNTLKQKQGFTLIELMIVIAIVGILA AAVALPAYQDYTARAQVSEATLLAEGQKSAVTEYYLNHGIWPKDNTSA..  | 71 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | .....MNTLKQKQGFTLIELMIVIAIVGILA AAVALPAYQDYTARAQVSEATLLAEGQKSAVTEYYLNHGWKWPENNTSA.. | 71 |
| NTDB id 1188 NELON RS01755 WP 003772458.1   | .....MKAMKQKQGFTLIELMIVIAIIGILA AAIAPAYQDYTVRSKVSEALIAASSPKSALSEAFQTDGITGMTAAAKAF   | 73 |
| NTDB id 322336 EBA21 RS18220 WP 011408068.1 | .....MKKQKQGFTLIELMIVVAIIAILA AAIAPAYQDYTTTRAKLSEALTMSAPAKLAVTETASSLGGVANVTLAN..    | 70 |
| NTDB id 1424 RS RS02795 WP 011000517.1      | MKSMRHLNKRVKQKQGFTLIELMIVVAIVGILA AAIAPAYQDYTVRARVTEGLSLAAQAKALVSENAANAQSDLSV.....  | 74 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | .....MNAKQKQGFTLIELMIVIAIIGILA AAIAPAYTDYTVRARVSEGLTAASSMKTITVSENILNACALVAGTPST..   | 70 |
| NTDB id 1274 LPP RS09530 WP 011214168.1     | .....MRQKQGFTLIELMIVVAIIGILA AAIAPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAAT..      | 69 |
| NTDB id 1258 GC085 RS09745 WP 014844212.1   | .....MRQKQGFTLIELMIVVAIIGILA AAIAPAYQDYTIRARVTEGLTLADSAKLAVSETAITNNALPATQAAT..      | 69 |
| consensus                                   | *****                                                                               |    |

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| NTDB id 1292 VP RS12235 WP 005479693.1      | .....TLAQLGVDVAANDLG AIDSA...LAGG...SPTLTFTF.....DADSSIDGGILTFTRD.....              | 119 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | .....GFTAATSSVCATYSIDAFTETD G...AGKIT.CTL...KG..NPKIATKIVELTRS.....                 | 116 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | AT...KKEVPLGVAADANKLG TIALKP..DPADG...TADITLTFT...MGGAGPKNKGGKIITLTRTA.....         | 128 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | .....GYIGITDSTS.YCDVDLD...TAADG...H..IE.CTA...KGGNAGKFDGKTITLTNRT.....              | 118 |
| NTDB id 1204 PSJM300 03935 AFN76865.1       | .....GFIGIGASTN.YCIVTTLI...ATATG...S..IT.CTT...QNGMPDRFNGKTITTIART.....             | 120 |
| NTDB id 1191 AAC28468.1 484..945( )         | NVIFDSA.....NGLDGKYFAPG.GVTVT.PDTGAINIAFDAG.....ANAGKMTITPTVI.....AASG              | 128 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1   | .....GVASA.STIKGKYVQKV.EVAKG.....VVT AQMAS...TGVNKEIQDKKLSLWA.....KRQD              | 120 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | .....GVASPPTDIKGKYVKEV.EVKNG.....VVTATMLS...SGVNNEIKGKKLSLWG.....RREN               | 121 |
| NTDB id 1188 NELON RS01755 WP 003772458.1   | NKTAAAGGGGAGAAAAGTQHASKYVKS V.KVTEA...SPWDITVAISATEANGIPTGLDGNITIRLFPLVNK.AVP.AATST | 148 |
| NTDB id 322336 EBA21 RS18220 WP 011408068.1 | .....SGY.....SFGPATKYVSNV.TIADG...TGLVTVTST.V.....PNAAGTILLTPKD.....VGG             | 116 |
| NTDB id 1424 RS RS02795 WP 011000517.1      | .....GSSVF...TPTKNVANL.TIAGTGTVP GQITVTVT.T.....AAGGGTIALVPTAAGTALPVSSAPS           | 131 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | .....AGSSCVGVQEISASNATTNVATA...TCGASSAGQIIVTMDTT.....KAKGANITLTPT.....YAS           | 125 |
| NTDB id 1274 LPP RS09530 WP 011214168.1     | .....GYV.....SPAATPNVASI...AIGA..NGVITITY.TA.....AAGGGTIVMTPTL.....QAN              | 113 |
| NTDB id 1258 GC085 RS09745 WP 014844212.1   | .....GYV.....SPAATPNVQSI...AIGA..NCVITITY.TA.....AAGGGTIIMTPTL.....QAN              | 113 |
| consensus                                   | *****                                                                               |     |

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| NTDB id 1292 VP RS12235 WP 005479693.1      | AATGWSCLPT.....APAIA.VDGC                        | 139 |
| NTDB id 1038 HON27 RS01510 WP 000993725.1   | TDGAWTCVSD.....VPTEFLPKGCTAGTPTEGAITS            | 149 |
| NTDB id 1192 PAKAF RS23870 WP 024947914.1   | ADGLWKCTSD.....QDEQFIPKGC                        | 150 |
| NTDB id 1197 PSJM300 03940 AFN76866.1       | ADGEWSCAST.....LDAKYKPGKCS                       | 139 |
| NTDB id 1204 PSJM300 03935 AFN76865.1       | TDGLWDCTSD.....LDSRYKPGKCL                       | 141 |
| NTDB id 1191 AAC28468.1 484..945( )         | QISTWTCAPG.....AANGIETRRLPTSCQ*                  | 153 |
| NTDB id 1109 OK783 RS10670 WP 157147416.1   | GSVKWFQCGQPVTRTGDNDTVA..DANNAIDTKHLPSTCRDESSAT   | 164 |
| NTDB id 1119 NGFG RS11465 WP 017147169.1    | GSVKWFQCGQPVTRADDDTVADA..KDGKEIDTKHLPSTCRDKASDAK | 166 |
| NTDB id 1188 NELON RS01755 WP 003772458.1   | GAIDWACASAASETADKRFGTGSGVAVGTLPAKYAPSECK         | 188 |
| NTDB id 322336 EBA21 RS18220 WP 011408068.1 | GQLKWTCSA.....ILTKYLPACRSGT                      | 141 |
| NTDB id 1424 RS RS02795 WP 011000517.1      | GPIMWTCYAQNKAQAASSVAPS...GTMSLAAKYAPACR          | 168 |
| NTDB id 1002 ACIAD RS15100 WP 004923779.1   | GAVTWKCTTT.....S.DKKYVPSECRG                     | 147 |
| NTDB id 1274 LPP RS09530 WP 011214168.1     | GDVTWTCTGG.....TLAKYRPASCRP                      | 136 |
| NTDB id 1258 GC085 RS09745 WP 014844212.1   | GDVTWTCTGG.....TLAKYRPASCRP                      | 136 |
| consensus                                   | * * !*!                                          |     |

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved