

logo

|                                             |                                                                                      |    |
|---------------------------------------------|--------------------------------------------------------------------------------------|----|
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | MAKN                                                                                 | 72 |
| NTDB id 149241 AB831 RS03165 WP 005479682.1 | MAKNTQ.....TLPLKNYRWKGINSSGKK.VSGQMLAISEIEVRDKLKDQHIQIKKLLKKGVSILAR.LTHRVRKSKDITI    | 71 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | .MKTT.....TPQLKNFRWKGVNSSGKK.TSGQTLAMSEIEVRERLDAQHIKIKKLLKKGSSISFLT.LSHRVKKGKDITV    | 71 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | .MKTI.....APQLKNYRWKGINSSGKK.TSGNVLAMTEIEVRERLDAQHIKIKKLLKKGSSISFITK.ISHRVKKGKDI     | 74 |
| NTDB id 1113 AAA85695.1 219..1451( )        | .MAKNGGFSLF AKKEKR FIFEGRHSASDKLVNGEVSAFTEEEARKKLA KRGI RPLQITRV.....KTSSKRKITQEDITV | 74 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | .MAKNGGFSLF AKKEKR FIFEGRHSASDKLVNGEVSAFTEEEARKKLA KRGI RPLQITRV.....KTSSKRKITQEDITV | 71 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | .MDKN.....SPPLTLFHYQGINKAGQK.MEGDIQARSLAIAKADLRKQGI VTNKV VVKRKP L FDR.KNKKITQADITV  | 70 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | .MAQK.....AIKNSVFTWGLDRQGAQK.IKGELSGVSPALVKAQLRKQGINPQKVRKKSISLFS..AGKKIKPMDIAL      | 73 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | MAAKK.....TQVMPVFA YEGV DRKG I K.LKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGLLKKKVKPLDIAI  | 73 |
| consensus                                   | MAVKK.....AQMMPTFA YEGV DRKG I K.LKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEGLFKKKVKTTLDITI | 73 |

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|                                             |                                                                                     |     |
|---------------------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | FTRQLATM                                                                            | 152 |
| NTDB id 149241 AB831 RS03165 WP 005479682.1 | FTRQISTMLVTGVPLVQALKLVSDNHKKAEMKSI LMSVTRAVEAGTPMSKAMRTASNHFDPPLYTDLIATGEQSGNLAIEVF | 151 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | FTRQIATMLMTGVPIVQALKLVSENHKKAEMKSI LMSVTRAVEAGTPMSKAMRTASTHFDPLYTDLIATGEQSGNLSQVF   | 151 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | FTRQLSTMIKAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGVLESLL    | 154 |
| NTDB id 1113 AAA85695.1 219..1451( )        | FTRQLSTMINAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGVLESLL    | 154 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | FTRQLATMIESGPIPLVQAFDIVAKGQSNKRLKDLIETIKHD IETGLTLAESLIKHPLYFNE LFCNLVDAGEKSGSLDIML | 151 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | FTRQMATMMKAGVPLQSFDIIGEGFDNPNMRKLVDDLKQEVAAAGNSFASSLRKKPQYFDDLYCNLVDSGEQSGSLETLL    | 150 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | FTRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVLGLKNEVEGGNTFAGALRKYPQYFDNLFCSLIESGEQSGSLEIML    | 153 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | FTRQLATMMKAGVPLVQGFIEIVAEGLENPAMREVVLG IKGEVEGGSTFASALRKYPQHFDNLFCSLVESGEQSGALETML  | 153 |
| consensus                                   | FTRQLATM                                                                            | 153 |

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|---------------------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | ERLATYREKSEQLR                                                                      | 232 |
| NTDB id 149241 AB831 RS03165 WP 005479682.1 | ERLATYREKNEQLRAKVIKALIYPAMVILVALGVSFIMLT KVIPEFEKMFVGFAGELPWFTTRQVLDLSAWTQNWSPFTIAL | 231 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | ERLATYREKSEQLR                                                                      | 231 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | DKLAIYKEKTQAI                                                                       | 234 |
| NTDB id 1113 AAA85695.1 219..1451( )        | DKLAIYKEKTQAI                                                                       | 234 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | DKVATYKEKIEI                                                                        | 231 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | DRVATYKEKTEAL                                                                       | 230 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | DRVAVYKEKSEVL                                                                       | 233 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | DRVAIYKEKSELL                                                                       | 233 |
| consensus                                   | ERLATYREKSEQLR                                                                      | 233 |

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|                                             |               |     |
|---------------------------------------------|---------------|-----|
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | AIAAAIFGLKAL  | 312 |
| NTDB id 149241 AB831 RS03165 WP 005479682.1 | GSISVFISARVLS | 311 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | SFVSLISGKIMS  | 311 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | ALGFAIYGFLLK  | 314 |
| NTDB id 1113 AAA85695.1 219..1451( )        | ALGFAIYRFLKL  | 314 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | ALGGVVSFFYAK  | 311 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | FGVGAAYAFKQA  | 310 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | VIGAATAGFLEA  | 313 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | AIGAVIAAFLEA  | 313 |
| consensus                                   | AIAAAIFGLKAL  | 313 |

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NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 149241 AB831 RS03165 WP 005479682.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1112 N6GF RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus

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logo

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NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 149241 AB831 RS03165 WP 005479682.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1112 NCFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus

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| Sequence                                                                         | Position |
|----------------------------------------------------------------------------------|----------|
| EIRDVATGQVYLAIRNINLFPNMLQVAGEESGALDDMLNKVATIEFEVDNVDNLSMMEPLIIVLGVLGGL           | 392      |
| EYVRDTAAGMPMYIAMRNTAEAFPEMVLQMVMI GEESGRLDDMLNKVATIEFEVDNVDNLSKILEPLIIVFLGTVVGG  | 391      |
| EYVRDTAAGMPMYIAMRHCVFPELVLQMVMI GEESGRLDDMLNKVATIAIIEFEVDNVDNLSKILEPLIIVFLGTVVGG | 391      |
| EIRTRVIQGLSMTSGMRATELFPNMMLQMVMI GEESGSLDDMLNKAAEFYEVDNVDNLSAMMEPTIIIVILGLVIGTL  | 394      |
| EIRTRVIQGLSMTSGMRATELFPNMMLQMVMI GEESGSLDDMLNKAAEFYEVDNVDNLSAMMEPTIIILGLVIGTL    | 394      |
| KIREEVATGQQMFIAMENTHLFPNMVIQMVAGEESGALDKMLSKVADFYEVDNVDNLSAMMEPTIIILGLVIGTL      | 391      |
| KIKSDVSSGMQLNFSMRTTGRFPTMAVQMTAIGEESGALDEMLSKVATFYEVDNVDNLSAMMEPTIIILGLVIGTL     | 390      |
| KIREDVSTGQQLNFAMRVSNRFPSTMAIQMVAGEESGALDEMLDKVANYYEVDNVDNLSAMMEPLIIMAILGLVIGTL   | 393      |
| KIREDVATGQQLQFAMRISNRFPSTMAIQMVAGEESGALDSMLDKVATYYENVDNVDNLSAMMEPLIIMAILGLVIGTL  | 393      |

V V A M Y L P I F N L M S V L G . 408  
V T A M Y L P I F N L M S V L G . 407  
V T A M Y L P I F N L M S V L G . 407  
L V A M Y L P I F N L G N V V A . 410  
L V A M Y L P I F N L G N V V A \* 410  
V V A M Y L P I F K L G S A V . 406  
I I A M Y L P I F Q M G S S V . 405  
V I A M Y L P I F Q M G S S V . 408  
V I A M Y L P I F Q M G S S V . 408

\* ! \* ! \* ! \* ! \* ! \* ! \* ! \* ! \*

- non conserved
- similar
- $\geq 50\%$  conserved