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| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | MAKSAARSVWNGMAKAKKMKYFWEKDSAGKMKGEYSALTEALARKRKQGLPKKRRKSKSLFETSSKKKYTK          | 68 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | .....MKATQTLPLKNYRWKGINSGKK.VSGQMLAISEIEVRDKLKDQHIQIKKLLKKGVSVLLAR.LTHRVRKSK     | 67 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | .....MKTIIAPQLKNYRWKGINSSGKK.TSGNVLAMTEIEVRERLDAQHIKIKKLLKKGSIKFITK.ISHRVRKSK    | 70 |
| NTDB id 1113 AAA85695.1 219..1451( )        | MAK.....NGGFSLFAKKEKRFIFEGRHSASDKLVNCEVSATFEEEARKKLAKRGIRPLQITRVK.....TSSKRKITQE | 70 |
| NTDB id 126177 AMD17 RS16905 WP 040107659.1 | MAK.....NGGFSLFAKKEKRFIFEGRHSASDKLVNCEVSATFEEEARKKLAKRGIRPLQITRVK.....TSSKRKITQE | 78 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | MSAARSVVKTAKTAASAEQMSPFVWEGTDRKGVK.MKGEQTARNANLLRAELRRQGITPLVVVKPKPLFGA.AGKKVSAK | 67 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | .....MDKNSPPLLTFFHYQGINKAGQK.MEGDIQARSLAIADLRKQGIIVTNKVVKKKRPLFDR.KNKKITQA       | 66 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | .....MAQKAIKNSVFTWGLDRQGAQ.IKGELSGVSPALVKAQLRKQGINPQKVRKKSSISLFS..AGKKIKPM       | 69 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | .....MAAKKTQVMPVFAYEGVDRKGIK.LKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGLLKKVKPL       | 69 |
| consensus                                   | .....MAVKKAKMMPFTAYEGVDRKGVK.IKGELPAKNMALAKVTLRKQGVTVRNIIEKRKNIFEGLLKKKVTTL      | 69 |

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| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 148 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 147 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 150 |
| NTDB id 1113 AAA85695.1 219..1451( )        | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 150 |
| NTDB id 126177 AMD17 RS16905 WP 040107659.1 | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 158 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 147 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 146 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 149 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL      | 149 |
| consensus                                   | .....DITITFTRQLATMIMKAGVPLVQAFEIVAGHNPIMRYMIMKVEGSSLSALRKHPYFDLYCNLVAGEESGVL | 149 |

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| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | PEVFERLATYREKSEQLRRAKVIKALIYPSMVVLVALGVSYLMLTMVPIPEFESMFKGFGAELPWFTQVQLKLSHWVQAVSL      | 228 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | SQVFERLATYREKSEQLRRAKVIKALIYPSMVVLVALGVSYLMLTRVPIPEFEKMFTEGFGADLPFTQVQLKLSHWVQAVSL      | 227 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | ESLDDKLAIYKEKTQAIRKKVKTALTYPVSVIAVAGLVFMMIFVLPAFKEVYANMGAELPPLTQTVMMDSDFFVSYGW          | 230 |
| NTDB id 1113 AAA85695.1 219..1451( )        | ESLDDKLAIYKEKTQAIRKKVKTALTYPVSVIAVAGLVFMMIFVLPAFKEVYANMGAELPPLTQTVMMDSDFFVSYGW          | 230 |
| NTDB id 126177 AMD17 RS16905 WP 040107659.1 | ETVLDITVATYKENLEALKGKIKKALFYPAVMVAVAMLVSAILLVWVVPQFEDVFKGFGAELPAFTQMVNLSRFMVSWWW        | 238 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | DIMLDKVATYKEKIEIKKKIKKALTYPVSVIAVAGLVFMMIFVLPAFKEVYANMGAELPPLTQTVMMDSDFFVSYGW           | 227 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | ETLLDRVATYKEKTEALKAKIKKAMNYPVAVVAVIVTALLIKVVPQFQDVAFNFGAELPAFTLMVIGLSEALQAWWY           | 226 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | EIMLDRVAVYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFAGADLPFTQLVNVNMSNMWDYWF        | 229 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | ETMLDRVAIYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFAGADLPFTQMVNVNMSKWMQYWF        | 229 |
| consensus                                   | .....PEVFERLATYREKSEQLRRAKVIKALIYPSMVVLVALGVSYLMLTMVPIPEFESMFKGFGAELPWFTQVQLKLSHWVQAVSL | 229 |

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| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | WAFITIAAAIFGLKALRKNSFQIRLKTSLRLGKFPITGNVLAKASIAKFSRTLATSFAAGIPILASLKTAKTSGNVHFE      | 308 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | FIGLSFVSLIISGKIMSQRSDSFRLLAARSSLRVPILGPVLSKAAIAKFSRTLATSFAAGIPILATLKTAKTSGNMHYQ      | 307 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | MVLIAGLFAIYGFLLKARSIKIQRMDAILLRMPFIFGDIVRKGTIARWGRRTATLFAAGVPLVDVLDSTAGAAGNLIYE      | 310 |
| NTDB id 1113 AAA85695.1 219..1451( )        | MVLIAGLFAIYGFLLKARSIKIQRMDAILLRMPFIFGDIVRKGTIARWGRRTATLFAAGVPLVDVLDSTAGAAGNLIYE      | 310 |
| NTDB id 126177 AMD17 RS16905 WP 040107659.1 | LMLFALVGAAGISFYAYKRSPAMQHGMDRLVLKVPITIGQIMHNSSIAARFARTTAVTFKAGVPLVLEALGIVAGATGNSVYE  | 318 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | IIFGALGGVVSFFYAKNHSLEFAQTIIDRVMLKLVPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSVAGATGNTIYA    | 307 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | VVLGAFVGAAYAFKQAHTRSEKFRNWFDRLMLKVPVVGDIYKSSVARFARTLSTTFAAGVPLVDALDSVAGATGNVVF       | 306 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | ILILVIGAAIAGFLEARKRSKRFRDQLDLRLVLRPIVGDVLYKAIARIYSRTLATTFAAGVPLIDALASTAGATNNTVYE     | 309 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | IMIIAIGAVIAAFLEAKRSKRFRDGLDKLALKLPVIGDLYKAIARIYSRTLATTFAAGVPLIDALESTAGATNNVIYE       | 309 |
| consensus                                   | .....WAFITIAAAIFGLKALRKNSFQIRLKTSLRLGKFPITGNVLAKASIAKFSRTLATSFAAGIPILASLKTAKTSGNVHFE | 309 |

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☒ non conserved  
☒ similar  
☒ ≥ 50% conserved