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|---------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | MAKSAARSVWNGMAKAKKMKYFWEKDSAGKMKGEYSALTEALARKRKQGLPKKRRKSKSLFETSSKKKYTK          | 68 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | .....MKATQTLPLKKNYRWKGINNSGKK.VSGQMLAISEIEVRDKLKDQHIQIKKLLKKGVSVLLAR.LTHRVRKSK   | 67 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | .....MKTIIAPQLKKNYRWKGINNSGKK.TSGNVLAMTEIEVRERLDAQHIKIKKLLKKGSIKFITK.ISHRVRKSK   | 70 |
| NTDB id 1113 AAA85695.1 219..1451( )        | MAK.....NGGFSLFAKKEKRFIFEGRHSASDKLVNCEVSATFEEEARKKLAKRGIRPLQITRVK.....TSSKRKITQE | 70 |
| NTDB id 125961 AMD18 RS16840 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   | .....MAQKAIKNSVFTWEGLDKRGQAK.IKGELSGVSPALVKAQLRKQGINPQKVRKKSISLFS..AGKKIKPM      | 69 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | .....MAAKKTQVMPVFAYEGVDRKGKIK.LKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGLLKKVKPL      | 69 |
| consensus                                   | .....MAVKKAKQMPPTFAYEGVDRKGVK.IKGELPAKNMALAKVTLRKQGVTVRNIIEKRKNIFLEGFLKKKVTTL    | 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 125961 AMD18 RS16840 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   | SQVFERLATYREKSEQLRRAKVIKALIYPSMVVLVALGVSYLMLTRVPIPEFEKMFMTGFGADLPAFTQMVLNLSAWTQNWGP     | 227 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | ESLDDKLAIYKEKTQAIRKKVKTALTYPVSVIAVAGLVFMMIFVLPAFKEVYANMGAELPLTQTVMMDSDFFVSYGW           | 230 |
| NTDB id 1113 AAA85695.1 219..1451( )        | ESLDDKLAIYKEKTQAIRKKVKTALTYPVSVIAVAGLVFMMIFVLPAFKEVYANMGAELPALTQTVMMDSDFFVSYGW          | 230 |
| NTDB id 125961 AMD18 RS16840 WP 040107659.1 | ETVLDITVATYKENLEALKGKIKKALFYPMVMAMVAMLVSAILLVWVVPQFEDVFKGFGAELPAFTQMIVNLSRFMVSWWW       | 238 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | DIMLDKVATYKEKIEIKKKIKKALTYPVSVIAVAGLVFMMIFVLPAFKEVYANMGAELPALTQTVMMDSDFFVSYGW           | 227 |
| NTDB id 1198 PSJM300 03950 AFN76868.1       | ETLLDRVATYKEKTEALKAKIKKAMNYPVIAVVLVAVIVTALLIKVVPQFQDVVFANFGAELPAFTLMVIGLSEALQAWWY       | 226 |
| NTDB id 1016 ACIAD RS01680 WP 004920476.1   | EIMLDRVAVYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFAGADLPAFTQLVNVNMSNMWDYWF       | 229 |
| NTDB id 1059 ABD1 RS01610 WP 000279215.1    | ETMLDRVAIYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFAGADLPAFTQMNVNMSKWMQEWYF       | 229 |
| consensus                                   | .....PEVFERLATYREKSEQLRRAKVIKALIYPSMVVLVALGVSYLMLTMVPIPEFESMFKGFGAELPWFTQVQLKLSHWVQAVSL | 229 |

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| NTDB id 1169 A1552VC RS11075 WP 000648511.1 | WAFITIAAAIFGLKALRKNSFQIRLKTSLRLGKFPIIGNVLAKASIAKFSRTLATSFAAGIPILASLKTAKTSGNVHFE      | 308 |
| NTDB id 1402 DSB67 RS12670 WP 010643257.1   | FTGLSFVSLIISGKIMSQRSDSFRLLAARSSLRVPILGPVLSKAAIAKFSRTLATSFAAGIPILATLKTAKTSGNMHYQ      | 307 |
| NTDB id 1112 NGFG RS09215 WP 003689811.1    | MVLIAGLFAIYGFLLKARSIKIQRMDAILLRMPFIFGDIVRKGTIARWGRRTATLFAAGVPLVDVLDSTAGAAGNLIYE      | 310 |
| NTDB id 1113 AAA85695.1 219..1451( )        | MVLIAGLFAIYGFLLKARSIKIQRMDAILLRMPFIFGDIVRKGTIARWGRRTATLFAAGVPLVDVLDSTAGAAGNLIYE      | 310 |
| NTDB id 125961 AMD18 RS16840 WP 040107659.1 | LMLFALVGAAGISVFAKRSIPAMQHGMDRLVLKVPITIGQIMHNSSIAARFARTTAVTFKAGVPLVLEALGIVAGATGNSVYE  | 318 |
| NTDB id 1252 GC085 RS07730 WP 011213805.1   | IIFGALGGVVSFFYAKNHSLEFAQTIIDRVMLKLPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSVAGATGNTIYA     | 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    | IMIIAIGAVIAAFLEAKRSKRFRDGLDKLALKLPFIFGDVLYKAIARIYSRTLATTFAAGVPLIDALESTAGATNNVIYE     | 309 |
| consensus                                   | .....WAFITIAAAIFGLKALRKNSFQIRLKTSLRLGKFPIIGNVLAKASIAKFSRTLATSFAAGIPILASLKTAKTSGNVHFE | 309 |

