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|                 |                                |                                                                      |                                                                 |     |
|-----------------|--------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------|-----|
| NTDB id 1029    | TT RS02230 WP 011228203.1      | PLLLLAVALLFFAYRW.YYGTPQGRRV                                          | IDRLKLRPLVFGNINRKTAVARFSRTLALLSSSGVNIVEALDITKGTAGNSVVE          | 303 |
| NTDB id 1169    | A1552VC RS11075 WP 000648511.1 | WAFIAIAAAIFGLKALRKN                                                  | SFQIRLKT SRLGLKFPITIGNVLAKASIAKFSRTLATSFAAGIPILASLKT            | 308 |
| NTDB id 1402    | DSB67 RS12670 WP 010643257.1   | FIGLSFVSLISGKIMSQRSDS                                                | FRLLAARSSLRVPILGPVLSKAAIAKFSRTLATSFSAGIPILTALKTT                | 307 |
| NTDB id 1112    | NGFG RS09215 WP 003689811.1    | MVLIALGFATYGF                                                        | FLKLKARSIKIQRRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDVLD        | 310 |
| NTDB id 1113    | AAA85695.1 219..1451( )        | MVLIALGFATYRFLKLKARSIKIQRRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDVLD | STAGAAGNLIYE                                                    | 310 |
| NTDB id 1252    | GC085 RS07730 WP 011213805.1   | IIIFGALGGVVVSFFYAKN                                                  | HSLEFAQTTIDRVMLKLPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSVAGATGNNIYA | 307 |
| NTDB id 1198    | PSJM300 03950 AFN76868.1       | VVLAGFVGAAAYAFKQAHTRSEKFRNWF                                         | DRLMLKVPVVGDIYKSSVARFARTLSTTFAAGVPLVDALDSVAGATGNNVFR            | 306 |
| NTDB id 1016    | ACIAD RS01680 WP 004920476.1   | ILILVIGAATAGFLEARKRSKRFRDQL                                          | DLRLVLRPIVGDLYKAI                                               | 309 |
| NTDB id 1061048 | ACGIGR RS05585 WP 000279216.1  | IMIATIGAVIAAFLEAKKRSKKFRDGLDKLAL                                     | KLPVIGDLYKAI                                                    | 309 |
| NTDB id 1059    | ABD1 RS01610 WP 000279215.1    | IMIATIGAVIAAFLEAKKRSKKFRDGLDKLAL                                     | KLPVIGDLYKAI                                                    | 309 |
| consensus       |                                | *****                                                                | *****!*****!*                                                   | 309 |

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|-----------------|--------------------------------|-----------------------------------|-----------------------------|-----|
| NTDB id 1029    | TT RS02230 WP 011228203.1      | EIVEAAKLKIQQGDPLNLT               | LTAQHPFVFPMPVSSMVAIGEETGALD | 383 |
| NTDB id 1169    | A1552VC RS11075 WP 000648511.1 | TAINEVYRDTAAGMPMYIAMR.NTEAFPEMVLQ | VMIGEESGQLDDMLNKVATIIYEF    | 387 |
| NTDB id 1402    | DSB67 RS12670 WP 010643257.1   | LAIEEVYRDTAAGMPMYIAMR.HCHVFPELVLQ | VMIGEESGRLDDMLNKIAAIYEF     | 386 |
| NTDB id 1112    | NGFG RS09215 WP 003689811.1    | EATREIRTRVIQGLSMTSGMR.ATELFPNMMLQ | MSSIGEESGLDDMLNKAAEFY       | 389 |
| NTDB id 1113    | AAA85695.1 219..1451( )        | EATREIRTRVIQGLSMTSGMR.ATELFPNMMLQ | MSSIGEESGLDDMLNKAAEFY       | 389 |
| NTDB id 1252    | GC085 RS07730 WP 011213805.1   | KATDKIREEVATGQQMFIA               | ME.NTHLFPNMVIQ              | 386 |
| NTDB id 1198    | PSJM300 03950 AFN76868.1       | SATNKKISDVSSGMQLNFSMR.TTGTFP      | SMVQMTAIGEESGALDEMLS        | 385 |
| NTDB id 1016    | ACIAD RS01680 WP 004920476.1   | QAVLKIREDVSTGQQLNFAMR.VSNRFPTMAIQ | MVAIGEESGALDEMLDKVAN        | 388 |
| NTDB id 1061048 | ACGIGR RS05585 WP 000279216.1  | KAVMKIREDVATGQQLQFAMR.VSNRFPSMAIQ | MVAIGEESGALDSMLDKVAT        | 388 |
| NTDB id 1059    | ABD1 RS01610 WP 000279215.1    | KAVMKIREDVATGQQLQFAMR.ISNRFPSMAIQ | MVAIGEESGALDSMLDKVAT        | 388 |
| consensus       |                                | ***                               | *****!*****                 | 388 |

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|-----------------|--------------------------------|--------------------------|-----|
| NTDB id 1029    | TT RS02230 WP 011228203.1      | IVGMIVAGMFLPLFKIIGTISVQ  | 406 |
| NTDB id 1169    | A1552VC RS11075 WP 000648511.1 | VVGGLVAMYLPIFNLMSVLG..   | 408 |
| NTDB id 1402    | DSB67 RS12670 WP 010643257.1   | VVGGLVTAMYLPIFNLMSVLG..  | 407 |
| NTDB id 1112    | NGFG RS09215 WP 003689811.1    | VIGTLLVAMYLPLFNLGNVVA..  | 410 |
| NTDB id 1113    | AAA85695.1 219..1451( )        | VIGTLLVAMYLPLFNLGNVVA*.. | 410 |
| NTDB id 1252    | GC085 RS07730 WP 011213805.1   | LVGGLVAMYLPIFKLGS        | 406 |
| NTDB id 1198    | PSJM300 03950 AFN76868.1       | LVGGLIIAMYLPIFQMGSV..    | 405 |
| NTDB id 1016    | ACIAD RS01680 WP 004920476.1   | LVGGLVIAMYLPIFQMGSV..    | 408 |
| NTDB id 1061048 | ACGIGR RS05585 WP 000279216.1  | LVGGLVIAMYLPIFQMGSV..    | 408 |
| NTDB id 1059    | ABD1 RS01610 WP 000279215.1    | LVGGLVIAMYLPIFQMGSV..    | 408 |
| consensus       |                                | ***!*****!***!*****      |     |

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