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|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 1272 LPP RS04360 WP 010946546.1     | MEAIIEKIKEYKIIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVVAISKDSVSEKEVKKEEKEEPLEQDLITVDVKG  | 0  |
| NTDB id 1249 GC085 RS04230 WP 010946546.1   | .....                                                                              | 0  |
| NTDB id 1014 ACIAD RS13855 WP 004924483.1   | .....                                                                              | 0  |
| NTDB id 1159 ABDM36 RS04765 WP 001166105.1  | .....                                                                              | 0  |
| NTDB id 1150 A1552VC RS08580 WP 001166105.1 | .....                                                                              | 0  |
| NTDB id 1294 VP RS04495 WP 021449594.1      | .....                                                                              | 0  |
| NTDB id 493 SM12261 RS04300 WP 000387351.1  | MEAIIEKIKEYKIIIVICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVVAISKDSVSEKEVKKEEKEEPLEQDLITVDVKG  | 80 |
| NTDB id 521 SMSK321 RS04960 WP 000443804.1  | MESIIIEKIKEYKIIIVICTGLGLLVGGFFLLKPAPHTPVKETNLQAEVVAISKDSSTEKDVKKEEKEEPVEQDLITVDVKG | 80 |
| NTDB id 266182 MC60 RS17310 WP 041212402.1  | ....MNRKT.LIAALL.....                                                              | 11 |
| NTDB id 1382 A4U84 RS07375 WP 062924234.1   | ....MKKLSRYTFSLL.....                                                              | 12 |
| NTDB id 1362 HI 1008 AAC22669.1             | ....MKTL..FTSVVL.....                                                              | 10 |
| consensus                                   |                                                                                    |    |

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|---------------------------------------------|-------------------------------------------------------------------------------|-----|
| NTDB id 1272 LPP RS04360 WP 010946546.1     | AVKSPGIYDLVGSRVNDVQKAGGLTEKIDLEFHTTITKVTLSDEFTFSSSEKSDDEAWKSTQTKAHDTRLNSSASHH | 24  |
| NTDB id 1249 GC085 RS04230 WP 010946546.1   | .....MKARL.....TAILL.....SFIVI.PFSSQAE.....NE                                 | 24  |
| NTDB id 1014 ACIAD RS13855 WP 004924483.1   | .....MKARL.....TAILL.....SFIVI.PFSSQAE.....NE                                 | 53  |
| NTDB id 1159 ABDM36 RS04765 WP 001166105.1  | .....MSIRHFFTFWFATLLTLFSMQIVFAQGFDQQYDAWKTKQKAHDTRLNSSASHH                    | 27  |
| NTDB id 1150 A1552VC RS08580 WP 001166105.1 | .....MQIKT.KIVTL...F..LSLCLPTLPLLANAEE.....E                                  | 27  |
| NTDB id 1294 VP RS04495 WP 021449594.1      | .....MQIKT.KIVTL...F..LSLCLPTLPLLANAEE.....E                                  | 20  |
| NTDB id 493 SM12261 RS04300 WP 000387351.1  | .....MKW...T..LTLCLVVFAPLSLAA.....D                                           | 140 |
| NTDB id 521 SMSK321 RS04960 WP 000443804.1  | AVKSPGIYDLVGSRVNDVQKAGGLTEQADS.KSLNLAQKV..SDEALVYVPTKGEEAA...SQ.....Q         | 140 |
| NTDB id 266182 MC60 RS17310 WP 041212402.1  | AVKSPGIYDLSVGSRVNDVQKAGGLTEQADS.KSLNLAQKV..SDEALVYVPTKGEEAA...SQ.....H        | 31  |
| NTDB id 1382 A4U84 RS07375 WP 062924234.1   | .....L..GCLPLLSQPLLAADKA...ATK.....                                           | 37  |
| NTDB id 1362 HI 1008 AAC22669.1             | .....F..G...LFSATTFAEEKV...TTST.....EHTPVVM                                   | 36  |
| consensus                                   | .....C..G..ALVSSSFEEKA...TXQT.....AQSVVTT                                     |     |

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|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1272 LPP RS04360 WP 010946546.1     | PQKTPAKQVLVKGKINLNTADVSLTGSFKGIGKKRAEAITAYRENHQQFKSLEELAEVKGIGQRFVDKNREKLKEIFVI    | 104 |
| NTDB id 1249 GC085 RS04230 WP 010946546.1   | PQKTPAKQVLVKGKINLNTADVSLTGSFKGIGKKRAEAITAYRENHQQFKSLEELAEVKGIGQRFVDKNREKLKEIFVI    | 104 |
| NTDB id 1014 ACIAD RS13855 WP 004924483.1   | SLSKPTQQSGTGVKVNINSATAKEL.QQLHGVGEKKALAIVEYRQQYQGFASVDDLQKVKGIGPKFIEKNRDRLATI....  | 128 |
| NTDB id 1159 ABDM36 RS04765 WP 001166105.1  | TAPAAQVEEGIVITVNINTASAEELATLLKGIGLKKAAQAIVDYREANGPFTTHIDDLTNVKGIGEATVRNNAARILL.... | 103 |
| NTDB id 1150 A1552VC RS08580 WP 001166105.1 | TAPAAQVEEGIVITVNINTASAEELATLLKGIGLKKAAQAIVDYREANGPFTTHIDDLTNVKGIGEATVRNNAARILL.... | 103 |
| NTDB id 1294 VP RS04495 WP 021449594.1      | ..TKADKYEGIEITVNINTASAEETATMLKGIGLKKAAQSIVDYRTEHGPFKTAADLTNVKGIGEATIKKNEDRILL....  | 94  |
| NTDB id 493 SM12261 RS04300 WP 000387351.1  | AGPGTASSTSKEKQVNLNKASLEEL.KQVKGGLGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLKDYVTVD...   | 216 |
| NTDB id 521 SMSK321 RS04960 WP 000443804.1  | TGSGAPSSTSKDKKINLNLKASLEEL.KQVKGGLGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIEKLKDYVTVD...  | 216 |
| NTDB id 266182 MC60 RS17310 WP 041212402.1  | ..PVATTQVKESGKINLNTASADEL.TALKGIGLKKAAQAIIDHREKQKGFSTVDQLADVSGIGPATLEANRDMITIVK... | 105 |
| NTDB id 1382 A4U84 RS07375 WP 062924234.1   | QQ.VAATQKVNANVVNINTATASEIQDKLVGIGAKKAQAIIVYREKNGKFLNVEQLTEVSGIGKATLEKNRDCIVIE...   | 113 |
| NTDB id 1362 HI 1008 AAC22669.1             | QAEAQVAPAVVSDKLNINTATASEIQKSLTGIGAKKAQAIIVYREKNGKFLNVEQLLEVGIGKATLEKNRDRRIIF....   | 112 |
| consensus                                   | .....                                                                              |     |

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|---------------------------------------------|---|-----|
| NTDB id 1272 LPP RS04360 WP 010946546.1     | N | 105 |
| NTDB id 1249 GC085 RS04230 WP 010946546.1   | N | 105 |
| NTDB id 1014 ACIAD RS13855 WP 004924483.1   | . | 128 |
| NTDB id 1159 ABDM36 RS04765 WP 001166105.1  | . | 103 |
| NTDB id 1150 A1552VC RS08580 WP 001166105.1 | . | 103 |
| NTDB id 1294 VP RS04495 WP 021449594.1      | . | 94  |
| NTDB id 493 SM12261 RS04300 WP 000387351.1  | . | 216 |
| NTDB id 521 SMSK321 RS04960 WP 000443804.1  | . | 216 |
| NTDB id 266182 MC60 RS17310 WP 041212402.1  | . | 105 |
| NTDB id 1382 A4U84 RS07375 WP 062924234.1   | . | 113 |
| NTDB id 1362 HI 1008 AAC22669.1             | . | 112 |
| consensus                                   |   |     |

-  non conserved
-  similar
-  ≥ 50% conserved