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|                                                |                                                                              |    |
|------------------------------------------------|------------------------------------------------------------------------------|----|
| NTDB id 624 LCA RS00040 WP 011373726.1         | MINRVVLVGRLLTRDVLRYTSSGAAVGTFSSMAVNRQFTNANGDREADFVNCVLTWRKSAENFANFTKKGSLVGV  | 80 |
| NTDB id 113 BSU 40900 NP 391970.1              | MLNRRVVLVGRLLTKDPELRYTPNGAAVATFTLAVNRFTFTNQSGEREADFVNCVLTWRQAEVAVNFKKKGSLAGV | 80 |
| NTDB id 597 KW2 RS01935 WP 021036727.1         | .MNKTMILIGRLTNAPEISKTTNNKSYVRVTLAVNRFFKNEKGEREADFISITLWCKSAETLVSYAKKGSLISV   | 79 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1     | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWCKLAESLASYATKGSLISVD  | 80 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1     | MYNKKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWGRLAETLASYATKGSLISVD  | 80 |
| NTDB id 57889 SPM032672 RS06310 WP 000282467.1 | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWGRLAETLASYATKGSLISVD  | 80 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1       | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWGRLAETLASYATKGSLISVD  | 80 |
| NTDB id 227 SPD RS09110 WP 000282467.1         | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWGRLAETLASYATKGSLISVD  | 80 |
| NTDB id 193 SPR RS08685 WP 000282467.1         | MYNKKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWGRLAETLASYATKGSLISVD  | 80 |
| NTDB id 158 SP RS09595 WP 000282442.1          | MYNKKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVWLWGRLAETLASYATKGSLISVD  | 80 |
| NTDB id 409 SMU RS08940 WP 002263454.1         | MYNKKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRFFKSQDGEKQADFVNVVLWGRLAETIASYGSKGSLIS    | 80 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1       | MYNKKVILIGRLTAAPPEMVKTPSNKSVTHITLAVNRFFKTQDGERQADFVNVVFWCKLAESLVSYAGKKGSLV   | 80 |
| consensus                                      | ***!*****!!*****!!*****!!*****!!*****!!*****!!*****!!*****!!*****!!          |    |

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|------------------------------------------------|-------------------------------------------------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1         | NYENQGGQRRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFNSNQSNQS...       | 153 |
| NTDB id 113 BSU 40900 NP 391970.1              | NYENQGGQRRVFVTEVQAESVQFLEPKNGGSGS....GGYNEGNSGGGQYFGGQNDNPF | 155 |
| NTDB id 597 KW2 RS01935 WP 021036727.1         | NYTDKNEQKHYTEITLGLSYDLLESRTTLALRESAV.....                   | 115 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1     | RFE.KNGQMNYVTEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1     | RFE.KNGQMNYVAEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 57889 SPM032672 RS06310 WP 000282467.1 | RFE.KNGQMNYVTEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1       | RFE.KNGQMNYVTEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 227 SPD RS09110 WP 000282467.1         | RFE.KNGQMNYVTEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 193 SPR RS08685 WP 000282467.1         | RFE.KNGQMNYVTEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 158 SP RS09595 WP 000282442.1          | RFE.KNGQMNYVTEVLVTGFQLLSRAQRAMRENNAGQ.....                  | 117 |
| NTDB id 409 SMU RS08940 WP 002263454.1         | KYE.KDGVTHTFVTEVLGHSFQLLSRAQRAMRENNSEN.....                 | 117 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1       | HYE.KDGQTHYVTEITLAQSFQLLSRAQRALRENNGAS.....                 | 117 |
| consensus                                      | *** *****!*****!!*****!!*****!!*****!!*****!!*****!!*****!! |     |

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|------------------------------------------------|-------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1         | FANNGQAIDISDDDLPF | 170 |
| NTDB id 113 BSU 40900 NP 391970.1              | FANDGKPIDISDDDLPF | 172 |
| NTDB id 597 KW2 RS01935 WP 021036727.1         | ...KTEELLLEADELPF | 129 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1     | ...DLADLVLEEEELPF | 131 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1     | ...DLADLVLEEEELPF | 131 |
| NTDB id 57889 SPM032672 RS06310 WP 000282467.1 | ...DLADLVLEEEELPF | 131 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1       | ...DLADLVLEEEELPF | 131 |
| NTDB id 227 SPD RS09110 WP 000282467.1         | ...DLADLVLEEEELPF | 131 |
| NTDB id 193 SPR RS08685 WP 000282467.1         | ...DLADLVLEEEELPF | 131 |
| NTDB id 158 SP RS09595 WP 000282442.1          | ...DLADLVLEEEELPF | 131 |
| NTDB id 409 SMU RS08940 WP 002263454.1         | ...DLADLVLEEEELPF | 131 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1       | ...DLTDLVLEEEELPF | 131 |
| consensus                                      | *****!!           |     |

☐ non conserved  
☒ similar  
☒ ≥ 50% conserved