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|                                              |                                                                                     |    |
|----------------------------------------------|-------------------------------------------------------------------------------------|----|
| NTDB id 624 LCA RS00040 WP 011373726.1       | MINRVVLVGRLLTRDVLRYTSSGAAVGTFMAVNRQFTNANGDREADDFINCVIWRKSAENFANFTKKGSLVGVDRGLQTR    | 80 |
| NTDB id 113 BSU 40900 NP 391970.1            | MLNRVVLVGRLLTKDPELRYTPNGAAVATFTLAVNRFTTNQSGEREADDFINCVTWRRQAENVANFLKKGSLAGVDGRLLQTR | 80 |
| NTDB id 597 KW2 RS01935 WP 021036727.1       | .MNKTMILIGRLTNAPEISKTTNNKSYVRVTLAVNRREFKNEKGEREADDFISILWCKSAETLVSYAKKGSLISVEGEIRTR  | 79 |
| NTDB id 1141634 DQN35 RS00740 WP 003053955.1 | MYNKVIAIGRLVAKPELVKTATDKHVARLSLAVNRREFKNASGEREADDFISVVWCKLAETLVSYASKGSLMSIDGELRTR   | 80 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1   | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVLWCKLAESLASYATKGSLISVDGELRTR     | 80 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1   | MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR     | 80 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1     | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR     | 80 |
| NTDB id 227 SPD RS09110 WP 000282467.1       | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR     | 80 |
| NTDB id 193 SPR RS08685 WP 000282467.1       | MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR     | 80 |
| NTDB id 158 SP RS09595 WP 000282442.1        | MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLISVDGELRTR     | 80 |
| NTDB id 409 SMU RS08940 WP 002263454.1       | MYNKVILIGRLVATPENVKTPKDKSVTRVTLAVNRREFKSGDGEKQADFVNMVLWGRLAETIASYGSKGSLISIDGELRTR   | 80 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1     | MYNKVILIGRLTAAPENVKTPSKSVTHITLAVNRREFKTQDGERQADFVNMVFWCKLAESLVSYAGKGSLVSDGETRTR     | 80 |
| consensus                                    | ***!*****!!* **** *! ***** **!!!!** **!*!!**!*!!**!*!!**!*!!**!*!!**!*!!            |    |

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| NTDB id 624 LCA RS00040 WP 011373726.1       | RYE KNGQMYVTEVLVSGQLLESRAQRAMRENNAG                                               | 153 |
| NTDB id 113 BSU 40900 NP 391970.1            | NYENQCGQRVYVTEVVVDNFSLLESRTTTEQRQGDGASQNFMSNQSNQSGS.....QSGFTSPQQTGNAPAAANNNTQADP | 155 |
| NTDB id 597 KW2 RS01935 WP 021036727.1       | NYENQCGQRVYVTEVQAESVQFLEPKNGGSGS.....GGYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQNSFNDDP    | 116 |
| NTDB id 1141634 DQN35 RS00740 WP 003053955.1 | NYTDKNEQKHYTELGLSLDLESRAATLALRESAVK.....                                          | 116 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1   | KYD.KDGGQVHYVTEVLCQSFQLLESRAQRAMRENNVT.....                                       | 116 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1   | RFE.KNGQMYVTEVLVTGFFQLLESRAQRAMRENNAG.....                                        | 116 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1     | RFE.KNGQMYVAEVLVTGFFQLLESRAQRAMRENNAG.....                                        | 116 |
| NTDB id 227 SPD RS09110 WP 000282467.1       | RFE.KNGQMYVTEVLVTGFFQLLESRAQRAMRENNAG.....                                        | 116 |
| NTDB id 193 SPR RS08685 WP 000282467.1       | RFE.KNGQMYVTEVLVTGFFQLLESRAQRAMRENNAG.....                                        | 116 |
| NTDB id 158 SP RS09595 WP 000282442.1        | RFE.KNGQMYVTEVLVTGFFQLLESRAQRAMRENNAG.....                                        | 116 |
| NTDB id 409 SMU RS08940 WP 002263454.1       | KYE.KDGVTHFVTEVLGHFSFQLLESRAQRAMRENNSE.....                                       | 116 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1     | HYE.KDGGQTHYVTEVLAQSFFQLLESRAQRAMRENNGA.....                                      | 116 |
| consensus                                    | *** ****!*** ****!!**********                                                     |     |

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| NTDB id 624 LCA RS00040 WP 011373726.1       | FANNGQATIDISDDDLPF | 170 |
| NTDB id 113 BSU 40900 NP 391970.1            | FANDGKPIDISDDDLPF  | 172 |
| NTDB id 597 KW2 RS01935 WP 021036727.1       | ...TEELLLEADELPF   | 129 |
| NTDB id 1141634 DQN35 RS00740 WP 003053955.1 | ..NDLVDLVLEEDTLPF  | 131 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1   | ..QDLADLVLEEEELPF  | 131 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1   | ..QDLADLVLEEEELPF  | 131 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1     | ..QDLADLVLEEEELPF  | 131 |
| NTDB id 227 SPD RS09110 WP 000282467.1       | ..QDLADLVLEEEELPF  | 131 |
| NTDB id 193 SPR RS08685 WP 000282467.1       | ..QDLADLVLEEEELPF  | 131 |
| NTDB id 158 SP RS09595 WP 000282442.1        | ..QDLADLVLEEEELPF  | 131 |
| NTDB id 409 SMU RS08940 WP 002263454.1       | ..NDLADLVLEEEELPF  | 131 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1     | ..SDLTDLVLEEEELPF  | 131 |
| consensus                                    | *****!!            |     |

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