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|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 624 LCA RS00040 WP 011373726.1      | MINKVILIGRLTSTPELHKTNNRKSVAATLAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLSVDGELRTR      | 80 |
| NTDB id 182966 LLJM2 RS02190 WP 021165898.1 | MINRVVLVGRLTRDVLRYTSSGAAVGTFMAVNRRQFTNANGDREADFINCVIWRKSAENFANFTKKGSLVGVDGRLQTR    | 79 |
| NTDB id 597 KW2 RS01935 WP 021036727.1      | .MNKTMILIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEKGEREADFISITLWGKSAETFVSYAKKGSLISVEGEIRTR  | 79 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1  | .MNKTMILIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEKGEREADFISITLWGKSAETLVSYAKKGSLISVEGEIRTR  | 80 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1  | MYNKVIMIGRLTSTPELHKTNNDKSVAATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLSVDGELRTR      | 80 |
| NTDB id 158 SP RS09595 WP 000282442.1       | MYNKVILIGRLTSTPELHKTNNDKSVAATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLSVDGELRTR      | 80 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1    | MYNKVIMIGRLTSTPELHKTNNDKSVAATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLSVDGELRTR      | 80 |
| NTDB id 227 SPD RS09110 WP 000282467.1      | MYNKVIMIGRLTSTPELHKTNNDKSVAATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLSVDGELRTR      | 80 |
| NTDB id 193 SPR RS08685 WP 000282467.1      | MYNKVIMIGRLTSTPELHKTNNDKSVAATIAVNRRYKQNGEREADFVNMVLWGRLAETLASYATKGSLSVDGELRTR      | 80 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1    | MYNKVILIGRLTAAPEMVKTTPSNKSVTHITLAVNRRFKTQDGERQADFVNVMVFWGKLAESLVSYAGKGSLVSLDGEIRTR | 80 |
| NTDB id 409 SMU RS08940 WP 002263454.1      | MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKSQDGEKQADFVNVMVLWGRLAETIASYGSKGSLISLDGELRTR  | 80 |
| consensus                                   | ***!*****!!!!*****!!*****!!!!*****!*****!!!!*****!*****!!!!*****!*****!!!!         |    |

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|---------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1      | RFEKNGQMNYVTEVLVTGFLLESRAQRAMRENNAGQDL                                            | 160 |
| NTDB id 182966 LLJM2 RS02190 WP 021165898.1 | NYENQCCQQRVYVTEVVVDNFSLLESRTTTEQRQDGCASQNFNSNQSNQSQSGFTSPQQTGNAPAAANNTQADPFANNGQA | 119 |
| NTDB id 597 KW2 RS01935 WP 021036727.1      | NYTDKNEQKHCITEILGLSYDLLESRATLALRES..AVNF.....EE                                   | 119 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1  | NYTDKNEQKHYITEILGLSYDLLESRATLALRES..AVKT.....EE                                   | 121 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1  | RFE.KNGQMNYVTEVLVTGFLLESRAQRAMRENNAGQDL.....AD                                    | 121 |
| NTDB id 158 SP RS09595 WP 000282442.1       | RFE.KNGQMNYVAEVLVTGFLLESRAQRAMRENNAGQDL.....AD                                    | 121 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1    | RFE.KNGQMNYVTEVLVTGFLLESRAQRAMRENNAGQDL.....AD                                    | 121 |
| NTDB id 227 SPD RS09110 WP 000282467.1      | RFE.KNGQMNYVTEVLVTGFLLESRAQRAMRENNAGQDL.....AD                                    | 121 |
| NTDB id 193 SPR RS08685 WP 000282467.1      | RFE.KNGQMNYVTEVLVTGFLLESRAQRAMRENNAGQDL.....AD                                    | 121 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1    | HYE.KDGQTHYVTEILAQSFQLLSRAQRALRENNGASDL.....TD                                    | 121 |
| NTDB id 409 SMU RS08940 WP 002263454.1      | KYE.KDGVTHFVTEVLGHSFQLLSRAQRAMRENNSENDL.....AD                                    | 121 |
| consensus                                   | *** *****!!!!*****!!!!*****!********** **                                         |     |

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|---------------------------------------------|------------|-----|
| NTDB id 624 LCA RS00040 WP 011373726.1      | LVLEEEELPF | 170 |
| NTDB id 182966 LLJM2 RS02190 WP 021165898.1 | IDISDDDLPF | 129 |
| NTDB id 597 KW2 RS01935 WP 021036727.1      | LVLEEEELPF | 129 |
| NTDB id 498 SM12261 RS01980 WP 000282464.1  | LVLEEEELPF | 131 |
| NTDB id 526 SMSK321 RS08825 WP 000282440.1  | LVLEEEELPF | 131 |
| NTDB id 158 SP RS09595 WP 000282442.1       | LVLEEEELPF | 131 |
| NTDB id 268 KZH43 RS08520 WP 000282467.1    | LVLEEEELPF | 131 |
| NTDB id 227 SPD RS09110 WP 000282467.1      | LVLEEEELPF | 131 |
| NTDB id 193 SPR RS08685 WP 000282467.1      | LVLEEEELPF | 131 |
| NTDB id 583 DLJ51 RS09560 WP 002962590.1    | LVLEEEELPF | 131 |
| NTDB id 409 SMU RS08940 WP 002263454.1      | LVLEEEELPF | 131 |
| consensus                                   | *****!!!!  |     |

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