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| NTDB id 600 KW2 RS01765 WP 011675413.1      | VEIYGPSSGKTTVALHAVA | AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLSQPDYGEQGLQIAEKLITSGAVDLV       | 155 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1    | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 228 SPD RS09265 WP 001085462.1      | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 194 SPR RS08825 WP 001085462.1      | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 159 SP RS09750 WP 001085462.1       | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1  | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | VEIYGPSSGKTTVALHAVA | AQAQKDGGAFAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 453 Spy49 1753c ACI62003.1          | IEIYGPSSGKTTVALHAVA | AQAQKEGGIAAFIDAEHALDPAYAAALGVNIDELLSQPDSGEQGLEIAGKLIDSGAVDLV       | 154 |
| NTDB id 115 BSU 16940 NP 389576.2           | IEVYGPSSGKTTVALHAI  | AEVQQQGGQAFAFIDAEHALDPVYAQKLGVNIEELLSQPDTEGEQALEIAEALVRSGAVDIV     | 139 |
| NTDB id 625 LCA RS02525 WP 011374196.1      | VEIYGPSSGKTTVALHAVA | AEVQKQGGTAAYIDAENAMDPKYATALGVNIDELLSQPDTEGEQLEIADALVSSGAVDIL       | 141 |
| NTDB id 1313 DR RS12030 WP 010888966.1      | TEIYGPSSGKTTVALAI   | IVAQAQKAGGTCFAFIDAEHALDPVYARALGVNTDELLVSQPDNTEGEQALEIMELLVRSGATDVI | 153 |
| NTDB id 1245 Cj1673c YP 002345041.1         | IEIYGPSSGKTTTLHI    | IAECQKAGGVCFAFIDAEHALDVKYAKNLGVNTDLYVSQPDFGEQALEIVETIARSGAVDLI     | 140 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1     | IEIYGPSSGKTTLSLHI   | IAECQKNGGVCFAFIDAEHALDVHYAKRLGVDTENLLVSQPDTEGEQALEILETITRSGIDLVI   | 142 |
| NTDB id 1211 C694 RS00795 WP 000963128.1    | IEIYGPSSGKTTLSLHI   | IAECQKNGGVCFAFIDAEHALDVHYAKRLGVDTENLLVSQPDTEGEQALEILETITRSGIDLVI   | 142 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1    | VEIYGPSSGKTTTLHAI   | IAEAQKVGTAFAFIDAEHALFDMHYAEKLGINLEELIVSQPDNTEGEQALEIADSLTRSGVDIV   | 149 |
| NTDB id 177596 A3858 RS10315 WP 002720615.1 | IEIYGPSSGKTTTLHV    | VAAEQKKGVCFAFVDAEHALDPQYAKKLGVNIDELLSQPDTEGEQALEIVDTLVRSGAVNLI     | 153 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1   | VEIYGPSSGKTTTLSLI   | IAQAQKGNKTCFAFIDAEHALDPVYARNLGVNIDELLSQPDNTEGEQALEICDALVRSGAVDVI   | 157 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1    | VEIFGPSSGKTTLCLEA   | VQAQCQKNGGVCFAFVDAEHAFFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV  | 141 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1    | VEIFGPSSGKTTLCLEA   | VQAQCQKNGGVCFAFVDAEHAFFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV  | 141 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1   | VEIFGPSSGKTTLCLEA   | VQAQCQKNGGVCFAFVDAEHAFFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV  | 141 |
| NTDB id 1427 RS RS02760 WP 011000510.1      | VEIYGPSSGKTTTLQV    | VVAEMQKLGTCFAFIDAEHALDVTYADKLGKVPDLLISQPDTEGEQALEIADALVRSGSVDLI    | 149 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | VEIFGPSSGKTTTLELI   | IAAAQREGKTCFAFIDAEHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDVI    | 140 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1   | VEIFGPSSGKTTTLELI   | IAAAQREGKTCFAFIDAEHALDPVYAKKLGVNIDELLSQPDTEGEQALEICDALARSGAVDVI    | 140 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1   | VEIYGPSSGKTTMTLQAI  | IAQCQKAGGTCFAFIDAEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRSGATDLI    | 140 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1    | IEIYGPSSGKTTMTLQAI  | IAQCQKSGGTCFAFIDAEHALDPQYARKLGVDIDNLLVSQPDNTEGEQALEIADMLVRSGATDLI  | 140 |
| NTDB id 1205 PSJM300 05545 AFN77183.1       | VEIYGPSSGKTTTL      | LSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDVI  | 140 |
| consensus                                   | *!*****!*****!      | *!*****!*****!   |     |







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