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|                |                                |                                      |                                               |    |
|----------------|--------------------------------|--------------------------------------|-----------------------------------------------|----|
| NTDB id 1029   | TT RS02230 WP 011228203.1      | .....MPVYQYKARDRQGR.L                | VEATIEAEDLRTAARLLRDRGLFVAETKEPGKGLQAEVRIPALER | 60 |
| NTDB id 1169   | A1552VC RS11075 WP 000648511.1 | .....MKATQTLPLKKNYRWKGINSGKK         | VSGQMLAISEIEVRDKLKDQHIQIKKLKKGVSLSLLAR....LTH | 63 |
| NTDB id 1402   | DSB67 RS12670 WP 010643257.1   | .....MKTIAAPQLKKNYRWKGINSSGKK        | TSGNVLAMTEIEVRERLDAQHIKIKKLKKGSSISFITK....ISH | 62 |
| NTDB id 1112   | NGFG RS09215 WP 003689811.1    | .....MAKNGGFSLFAKKEKRFIFEGRHSASDKLVN | GEVSFAFTEEEARKKLAKRGIRPLQITRV....KT...SSKR    | 65 |
| NTDB id 1113   | AAA85695.1 219..1451( )        | .....MAKNGGFSLFAKKEKRFIFEGRHSASDKLVN | GEVSFAFTEEEARKKLAKRGIRPLQITRV....KT...SSKR    | 65 |
| NTDB id 419664 | FYK61 RS16240 WP 033836749.1   | MSVARNVIKKQPADRSNSQMQPFVWEGTDKRGIK   | MKGEQAARNVNMLRAELRRQGITPTVVKPKPKPLFGA....AGK  | 74 |
| NTDB id 1252   | GC085 RS07730 WP 011213805.1   | .....MDKNSPPLLTFHYQGINKAGQK          | MEGDIQARSLAIKADLRKQGIVTNKKRKRPLFDR....KNK     | 62 |
| NTDB id 1198   | PSJM300 03950 AFN76868.1       | .....MAQKAIAKNSVFTWEGLDKRGAK         | IKGELSGVSPALVKAQLRKQGINPQKVRKKSISLFS....AGK   | 61 |
| NTDB id 1016   | ACIAD RS01680 WP 004920476.1   | .....MAAKKTQVMPVFAYEGVDRKGIK         | LKGELPARNMALAKVTLRKQGITTRTIREKRKNIFEG...LLKK  | 64 |
| NTDB id 1059   | ABD1 RS01610 WP 000279215.1    | .....MAVKKAQMMPTFAYEGVDRKGVK         | IKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEG...LFKK  | 64 |
| consensus      |                                | * * * * *                            | * * * * *                                     |    |

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|           |    |        |            |         |     |              |                                                                                                                        |     |
|-----------|----|--------|------------|---------|-----|--------------|------------------------------------------------------------------------------------------------------------------------|-----|
| NTDB      | id | 1029   | TT         | RS02230 | WP  | O11228203.1  | GPGLKDLAIFSRQLATMLGAGITLLQALAILERQTENRKFRFRLKQVRTDVEGGMAFSEALSCHKH.IFSRLYVNLVRAGE                                      | 139 |
| NTDB      | id | 1169   | A1552VC    | RS11075 | WP  | 000648511.1  | RVKSKDITILTRQLATMLTTGVPIVQALKLVGDNHRKAEMKSILAQITKSVEAGTPLSKAMRTASAHFDTLVVDLVEETGE                                      | 143 |
| NTDB      | id | 1402   | DSB67      | RS12670 | WP  | 010643257.1  | RVKKGKITIFTRQIATMLMTGVPIVQALKLVSENHHKAEMKSILMSVTRAWEAGTPMSKAMRTASTHFDPPLYTDLIATGE                                      | 142 |
| NTDB      | id | 1112   | NGFG       | RS09215 | WP  | 003689811.1  | KITQEEDITVFTRQLSTMIKAGLPMLQAFAIVARHGHNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFYDRFCYNLVAAGE                                     | 145 |
| NTDB      | id | 1113   | AAA85695.1 |         |     | 219..1451( ) | KITQEDITVFTRQLSTMINAGLPMLQAFAIVARHGHNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFYDRFCYNLVAAGE                                      | 145 |
| NTDB      | id | 419664 | FYK61      | RS16240 | WP  | 033836749.1  | KVGPKDIAFFSRQMATTMMKSGVPVIGSLEIICEGHKNPRMRKMVGQIRTIDIEGSSSLHEAISKHVPVQFDELYRNLRVAGE                                    | 154 |
| NTDB      | id | 1252   | GCO85      | RS07730 | WP  | 011213805.1  | KITQADITVFSRQLATMIESTGPLVQAADFIVA KGSNKRLKD LIETIKHDIETGLTLAESLIKHPVLYFNELFCNLVDAGE                                    | 142 |
| NTDB      | id | 1198   | PSJM300    | 03950   | AFN | 76868.1      | KIKPMDIALFTFRQMATMMKAGVPLLQSFDIIGEGFDNPNNMRKLVD LKQEVAAGNSFASSLRKKPPQFYDDLYCNLVD SGE                                   | 141 |
| NTDB      | id | 1016   | ACIAD      | RS01680 | WP  | 004920476.1  | KVKPLDIAIFTRQLATMMKAGVPLVQAFAIVEGLENPAMRDVV LGKNEVEGGTFAGALRKYPQFYDNLFCSLIESGE                                         | 144 |
| NTDB      | id | 1059   | ABD1       | RS01610 | WP  | 000279215.1  | KVTTLDTITFTRQLATMMKAGVPLVGFGEIVAEGLENPAMREVVVLGIKEVEGGSTFASALRKYPQHFDNLFCSLVESGE                                       | 144 |
| consensus |    |        |            |         |     |              | ** * ! * * * * ! * ! * * * ! * * * * ! * * * * * * * * * * * * * * * * * * * * * * * ! * * * * * ! * * * * ! * * * * * |     |

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