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|                                             |                                                                                  |    |
|---------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1284 ACE17W RS12370 WP 010946666.1  | MRKIIAIIIL..ISASISMAYSKDNLSISVKVLPLENRVRIDFQFSKPLKQLPASFITQKPPRLVLDLFISTDMQIPSDQ | 78 |
| NTDB id 1257 GC085 RS04855 WP 163621000.1   | MRKIIAIIIL..ISASISLAYSKDNLSISVKVLPLENRVRIDFQFSKPLKQLPASFITQKPPRLVLDLFISTDMQIPSDQ | 78 |
| NTDB id 395040 GEV42 RS29545 WP 034039637.1 | MNSGLSRLGIALAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T  | 76 |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | MNSGLSRLGIALAA.MFAPALLAADLEKLDVAALPGDRVELKLQFDEPVA.APRGYTIEQPARIALDLPGVQNKLG..T  | 76 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | MKQIIRQFSIGTVAYAIMQVASAQVAITNVVPMNIPGQGTEIRVMFNGLPP.QPQAYQLEQPARLILDFDKAGQKLA..K | 77 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQGLK..Q  | 77 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | MNHVFRQFSMGAVAIAIMQAASAQVSMTNIVPMQIAGQGTEIRVMFNGLPP.QPQAYQLENPSRLILDFDKAQGLK..Q  | 77 |
| consensus                                   | !* ** * ** *** * *** ** * ** *****! ** ! ** ***! !!!!!* ** *                     |    |

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|---------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1284 ACE17W RS12370 WP 010946666.1  | KTITVSTGEASVDVSDDDRRLIVNLKDSGYSTRVEGNVEILVINNSQTSAS                              | 145 |
| NTDB id 1257 GC085 RS04855 WP 163621000.1   | KTITVSTGEASVDVSDDDRRLIVNLKDSGYSTRVEGNVEILVINNSQTSAS                              | 145 |
| NTDB id 395040 GEV42 RS29545 WP 034039637.1 | KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTARVEGNLNFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY | 156 |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | KNRELSVGNTRSVTVVEAKDRTRLIINLTTLSSYTTRVEGNLNFVVVGNSPAGASVASTAPVKASPAPASYAQPIKPKPY | 156 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | SLIPVTTNEASSIDVSSDDKRARVVVNLKDAGAFFTRVEGNVFILKINNIQSTAT.....PVAT..SA.....        | 138 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | SKI SVATNEASSVDVTSDDQRSRLTVNLKDAGAFFTRVEGNTFILKINSAQTSNK.....PLPV..VS.....       | 138 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | SKI SVATNEASSVDVTSDDQRSRLTVNLKDAGAFFTRVEGNTFILKINSAQTSNK.....PLPV..VS.....       | 138 |
| consensus                                   | * *** ** !* ** *! !!!!!* *****! * **** * *                                       |     |

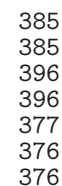
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| NTDB id 1257 GC085 RS04855 WP 163621000.1   | VNAKHEIKRIDFRGIEKQGGRVLIDVSDTGIPIDVTQVGKEIVVNFLNTKIPLNLMKRYDVSDFHSPVQIITMQQEGKKV  | 225 |
| NTDB id 395040 GEV42 RS29545 WP 034039637.1 | VPAGRAIRNIDFQRGEKGEGNVVIDLSPTLSPDIEQGGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASQSDRT    | 236 |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | VPAGRAIRNIDFQRGEKGEGNVVIDLSPTLSPDIEQGGGKIRLDFAKTQLPDALRVRLDVKDFATPVQFVNASQSDRT    | 236 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | PAPQQGIGNIGFQRGAQGEGLVVIDLQGTINTPVDVQQQGSKVVRFPGKIKIPHTLARRLNTTDFATPVASIDSYNDGSNG | 218 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | .AQPQGVSNIGFQRGSQGEGLVVIDLGSNTPVDVQQQGSKVVRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG    | 217 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | .AQPQGVSNIGFQRGSQGEGLVVIDLGSNTPVDVQQQGSKVVRTIGTKIPHTLARRLNVNDFATPVSSIDAYNDKGVG    | 217 |
| consensus                                   | * * ****!* !!!!!* ****!* ****! * ****! ! !!!!!* !!!!!* * * *                      |     |

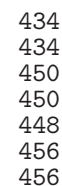
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| NTDB id 1257 GC085 RS04855 WP 163621000.1   | RM TILSKGDYGHFVYQVNVKQFMVDVFPLTAEIRQAKLKKQVFTGKRISLNFQNISIRAVLQLLADFTGINMVVSDKVQG       | 305 |
| NTDB id 395040 GEV42 RS29545 WP 034039637.1 | SITIEPSGLYDYL VYQTDNRLTVS IKPMTTEDAERRKKDNFTYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG      | 316 |
| NTDB id 1193 PAKAF RS26665 WP 003161249.1   | SITIEPSGLYDYL VYQTDNRLTVS IKPMTTEDAERRKKDNFAYTGEKLSLNFQDIDVRSVLQLIADFTDLNLVASDTVQG      | 316 |
| NTDB id 1009 ACIAD RS15175 WP 004923730.1   | VISIQTSGSYEYMAQYAEENKLTISLKRQDNV.RLNSKNNQNYTGKKISLDFQDIEVRRVLQLLADFTGINMVTADSQQG        | 297 |
| NTDB id 1052 ABD1 RS15850 WP 001017033.1    | VITIQSSGSYEYMAQYAEENKLTISLKRQDNV.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSQQG        | 296 |
| NTDB id 1039 HON27 RS01460 WP 031993779.1   | VITIQSSGSYEYMAQYAEENKLTISLKRQDNV.VTSLYKTPNYSGNKLSLDFQDIEVRRVLQLLADFTGINMVAADSQQG        | 296 |
| consensus                                   | **! **! !!!!!* ****** * * ****! !!!!!* !!!!!* !!!!!* !!!!!* !!!!!* !!!!!* !!!!!* !!!!!* |     |

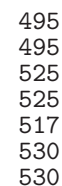
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NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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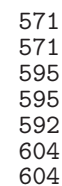
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consensus
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NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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NTDB id 1284 ACE17W RS12370 WP 010946666.1
NTDB id 1257 GCO85 RS04855 WP 163621000.1
NTDB id 395040 GEV42 RS29545 WP 034039637.1
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NTDB id 1009 ACIAD RS15175 WP 004923730.1
NTDB id 1052 ABD1 RS15850 WP 001017033.1
NTDB id 1039 HON27 RS01460 WP 031993779.1
consensus
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