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|           |      |         |         |    |             |                                                                                     |    |
|-----------|------|---------|---------|----|-------------|-------------------------------------------------------------------------------------|----|
| NTDB id   | 1250 | GC085   | RS13065 | WP | 027219989.1 | .....MNNLQPLLALNRMKRIGPRTVLKLQKRWPDNLNMFQLSSVDLEEAGLPWSLAQTIKNFDPDFIKTDLNWLSSSEN    | 75 |
| NTDB id   | 1445 | BW25113 | RS17035 | WP | 000228551.1 | .....MVDTEIWLRLMSSISLYGDDMVRIA.HWV..AKQSHIDAVVLQQTGLTLRQAQRFSLFPRKSISSSLCWLEQP.N    | 71 |
| NTDB id   | 1388 | A4U84   | RS04945 | WP | 062924099.1 | .....MTHLTKLALLQVPQLGAQRIGRL..SEVDFGEFCQYDKTALKQMGWNERQIQRFNPEHKWIDQALQWAEQD.Q      | 73 |
| NTDB id   | 1466 | ASU2    | RS09750 | WP | 015674213.1 | .....MSQTDLLKLLQIPQLGAQRITARLL..SEVDFGEFCQYDKRQLQKIGWNEKQIQRFNPEKRWIESALAWAEQ.P.N   | 72 |
| NTDB id   | 1399 | DSB67   | RS15600 | WP | 010645755.1 | MTPQNDIDLAAWLKLSCLPGTGGVKMNKLL..SKDTPSNIVQYSTEQLQLLGLTAKQLQAW..SQVDKEVDACLTWVAASSH  | 78 |
| NTDB id   | 1152 | A1552VC | RS00200 | WP | 000654772.1 | ...MKDQDLAAWLALCFTPKLGSKTISHLL..ATRLPAQLQSFETPKQWLACGLKPEQLVFLTTQAAKQAEQCLQWRSAAANN | 76 |
| consensus |      |         |         |    |             | * * * * * ! ! * * * * * * * * * * * * * * * ! * * * * * ! ! * * * * *               |    |

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| NTDB id   | 1250 | GC085   | RS13065 | WP | 027219989.1 | HHILTWDSPPYPALLKEIADPPFIIYAKGELISALTQPSLAIVGSRNASVTGNNARAFSREISRHGVSTIVSGLALGIDAH               | 155 |
| NTDB id   | 1445 | BW25113 | RS17035 | WP | 000228551.1 | HHILPADSEFYPPQLLATTDYPGALFVEGELHALHSFQLAIVGSRNASWYGERWGRFCETLATRGVTTISGLARGIDGV                 | 151 |
| NTDB id   | 1388 | A4U84   | RS04945 | WP | 062924099.1 | QQILTLFDEEDYPPFLKQISTAPPVLFVRGNVESLSLPQIAIVGSRDYSHYGEHWAGHFSAEELVKHQLAVTSGLAIGIDGF              | 153 |
| NTDB id   | 1466 | ASU2    | RS09750 | WP | 015674213.1 | QRLLTLFDEEYPFLLRQISTAPPVLFVRGSISSLSLPQIAIVGSRDIFSAYGEYWAGYFSEQLIKHHLAVTSGLAIGIDGF               | 152 |
| NTDB id   | 1399 | DSB67   | RS15600 | WP | 010645755.1 | HHILTLADALYPPLLKQTVAPPPLLFLVKGESCLPQPQIAMVGSRNASVDGLQHTRTFASDLVQHDLIIVTSGLALGIDGH               | 158 |
| NTDB id   | 1152 | A1552VC | RS00200 | WP | 000654772.1 | RYIVTPHCPLYPRLIKEINSSPPVLFIEGIWEAVHDPAVAIVGSRNASVDGRQIARQFATELAQSGLVVTSGLALGIDGY                | 156 |
| consensus |      |         |         |    |             | * * * * * ! ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * |     |

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| NTDB id   | 1250 | GC085   | RS13065 | WP | 027219989.1 | AHLGCLLEGGCKTIAVLGTGIDCIYPRRHLKLAEQITE.NGLLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIEAAIKS                   | 234 |
| NTDB id   | 1445 | BW25113 | RS17035 | WP | 000228551.1 | AHKAALQVNGVSIIVLGNGLINTIHPRRHARLAASLLEQGGALVSEFPLDVPPLAYNFPRRNRIISGLSKGVLVVEAALRS                   | 231 |
| NTDB id   | 1388 | A4U84   | RS04945 | WP | 062924099.1 | CHQRAANENGITIAVLGSGLDQVYPARHKKLAEQIVETS GALVSEFFPSQPPIAENFPRRNRIISGLSLGTLVIEATVNS                   | 233 |
| NTDB id   | 1466 | ASU2    | RS09750 | WP | 015674213.1 | CHQRAVAEQGITIAVLGSGLDQVYPARHKKLAEQIVESGALVSEFFPNHPPLAENFPRRNRIISGLSLGTLVVEATVNS                     | 232 |
| NTDB id   | 1399 | DSB67   | RS15600 | WP | 010645755.1 | AHDGALLAGGKTIIVLGSGLQVYPARHRGLAQRVAE.NGALVSEFRPDAPRAENFPRRNRIISGLSLGVLVVEAAEKS                      | 237 |
| NTDB id   | 1152 | A1552VC | RS00200 | WP | 000654772.1 | AHDGALQAQQGTIVAVLGSGLAQVYPKQHQGLAERITIA.QGALVSEFAPHTPPKADHFPRRNRIISGLSLGVLVVEAAEKS                  | 235 |
| consensus |      |         |         |    |             | * ! * * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * |     |

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| NTDB id   | 1250 | GC085   | RS13065 | WP | 027219989.1 | GSLITARYALEQGREVFALPGSLNPSSGHLIKQGAIVNVEDLLEQLQSLHWSSSYPSQSLFSTQSYE                             | 302 |
| NTDB id   | 1445 | BW25113 | RS17035 | WP | 000228551.1 | GSLVTARCALEQGREVFALPGPIGNPGSEGPHWLIKQGAIVTEPEEILENLQFGLHWLPDAPE..NSFYSPD.....                   | 302 |
| NTDB id   | 1388 | A4U84   | RS04945 | WP | 062924099.1 | GSLITARYALEQGREVFALPNSVQNPYSEGCHKLIKEGALLVENVEDILEAIA...WQRQ.SVHIQPSLFDTKPKQ...                 | 305 |
| NTDB id   | 1466 | ASU2    | RS09750 | WP | 015674213.1 | GSLITARYALEQGREVFALPNSVQNPYAQGCCHKLIKEGAVLTETIEDILQAIQ...YQLP.DQPRQQUALFETEQA VEKT              | 307 |
| NTDB id   | 1399 | DSB67   | RS15600 | WP | 010645755.1 | GSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLQVNTQEVLENEISLLDWSINQSL...DLFSAPIDEE..                 | 311 |
| NTDB id   | 1152 | A1552VC | RS00200 | WP | 000654772.1 | GSLITARYAAEQGREVFVPGSIFNAASQGSNQLIRQGACLVQSVQQIHQELKNALTWSLSEQVPYQATLFSAVQSD..                  | 313 |
| consensus |      |         |         |    |             | ! ! ! ! ! ! ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * |     |

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| NTDB id   | 1250 | GC085   | RS13065 | WP | 027219989.1 | .....ASGKENLVKFIISFETTTIDQIIDRSGYGMQVTSGLAELELKGAIVAVPGGYIRCEYE                             | 360 |
| NTDB id   | 1445 | BW25113 | RS17035 | WP | 000228551.1 | .....QQDVALPPELLANVGVDEVTVPDVVAERAGQPVPEVVTQLLELELAGWIAAVPGGYVRLRRA                         | 364 |
| NTDB id   | 1388 | A4U84   | RS04945 | WP | 062924099.1 | .....AVKSEPKFAKNLPALTACQQQLFEQISLEPTISVDDLAKATDMAVETALIELLNLELLGVVKQVRGGYVIT...             | 375 |
| NTDB id   | 1466 | ASU2    | RS09750 | WP | 015674213.1 | QFFAKANMNPKNVNHFAKKLPMTACQQQIVIEHIGLNPISTDDLAKATALEVETLLVELLGLLELLSVIKQVSGGYVRQ...          | 384 |
| NTDB id   | 1399 | DSB67   | RS15600 | WP | 010645755.1 | .....ELPFPQLLANVGNATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKGRG                              | 369 |
| NTDB id   | 1152 | A1552VC | RS00200 | WP | 000654772.1 | .....ELPFPPELLANVGIEATPIDILASRTQIPVQDIMMQLLELELLGHVVAVPGGYIRKGRG                            | 371 |
| consensus |      |         |         |    |             | * * * * * * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * ! * * * * * |     |

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|---------------------------------------------|-------------|-----|
| NTDB id 1250 GC085 RS13065 WP 027219989.1   | R.....      | 361 |
| NTDB id 1445 BW25113 RS17035 WP 000228551.1 | CHVRRITNVFV | 374 |
| NTDB id 1388 A4U84 RS04945 WP 062924099.1   | .....       | 375 |
| NTDB id 1466 ASU2 RS09750 WP 015674213.1    | .....       | 384 |
| NTDB id 1399 DSB67 RS15600 WP 010645755.1   | .....       | 369 |
| NTDB id 1152 A1552VC RS00200 WP 000654772.1 | .....       | 371 |
| consensus                                   |             |     |

- X non conserved
- X similar
- X ≥ 50% conserved