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|--------------------------------------------|----------------------------------------------------------------------------------------|----|
| NTDB id 259 KZH43 RS03480 WP 000491790.1   | MFSKLLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPPQAVIQLAINRATEEIKDL...ENARA | 81 |
| NTDB id 218 SPD RS03780 WP 000491790.1     | MFSKLLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPPQAVIQLAINRATEEIKDL...ENARA | 81 |
| NTDB id 184 SPR RS03565 WP 000491790.1     | MFSKLLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPPQAVIQLAINRATEEIKDL...ENARA | 81 |
| NTDB id 148 SP RS03910 WP 000491790.1      | MFSKLLKKTWYADDFSYFIRNFGVFTLIFSTMTLIILQVMHSSLYTSVDDKLHGLSENPPQAVIQLAINRATEEIKDL...ENARA | 81 |
| NTDB id 64804 SCAZ3 RS09910 WP 003048304.1 | .MSKLLKKEILSDQYTHFFHFFFAVFTGIFVIMTIIILQIMRFGVYSSVDSSLISVSNMSSYANRTMARISSFYFDSENNIIKALP | 84 |
| NTDB id 363 SMU RS05195 WP 002262215.1     | MLIKLRKQKQDENISIFFSHFFAVFTGIFFVMTVIIIQVMHFGIYSSVDNSLKIATENVNDYVNMTLSHNNPITEAEN.....GD  | 79 |
| consensus                                  | *****                                                                                  |    |

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| NTDB id 259 KZH43 RS03480 WP 000491790.1   | DASKVEIKPNVSSNTEVILFDKDFQLSGNRFLGLDKIKLEKKELGHIYQIQVFNISYQGEIYRVILMETNISSVSTNIKYAAY    | 166 |
| NTDB id 218 SPD RS03780 WP 000491790.1     | DASKVEIKPNVSSNTEVILFDKDFQLSGNRFLGLDKIKLEKKELGHIYQIQVFNISYQGEIYRVILMETNISSVSTNIKYAAY    | 166 |
| NTDB id 184 SPR RS03565 WP 000491790.1     | DASKVEIKPNVSSNTEVILFDKDFQLSGNRFLGLDKIKLEKKELGHIYQIQVFNISYQGEIYRVILMETNISSVSTNIKYAAY    | 166 |
| NTDB id 148 SP RS03910 WP 000491790.1      | DASKVEIKPNVSSNTEVILFDKDFQLSGNRFLGLDKIKLEKKELGHIYQIQVFNISYQGEIYRVILMETNISSVSTNIKYAAY    | 166 |
| NTDB id 64804 SCAZ3 RS09910 WP 003048304.1 | DSDDSKLLGSPAANTDIILFSANGTILNSFNAFSNYQNFHLDERRLGTIVTTSLVNFYQGEEKYHTITVRVHIKN.YPAVAYMMA  | 168 |
| NTDB id 363 SMU RS05195 WP 002262215.1     | ASFVKVKSNGQMAANTDTILYDKKHNVINNVAFFSSLYHIRPKLKDIDIVEQEAKNIYQGTEKYRTVTVKVNNDF.YPQIKFATIL | 163 |
| consensus                                  | *****                                                                                  |     |

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| NTDB id 259 KZH43 RS03480 WP 000491790.1   | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESQMKGQSSFVENASHELRTPLAVLQNRLETFLRKPEATIM | 251 |
| NTDB id 218 SPD RS03780 WP 000491790.1     | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESQMKGQSSFVENASHELRTPLAVLQNRLETFLRKPEATIM | 251 |
| NTDB id 184 SPR RS03565 WP 000491790.1     | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESQMKGQSSFVENASHELRTPLAVLQNRLETFLRKPEATIM | 251 |
| NTDB id 148 SP RS03910 WP 000491790.1      | LINTSQLEQASQKHEQLIVVVMASFWILSLLASLYLARVSVRPLLESQMKGQSSFVENASHELRTPLAVLQNRLETFLRKPEATIM | 251 |
| NTDB id 64804 SCAZ3 RS09910 WP 003048304.1 | VVNVDQLDSANERYEQIIIVMVIFWLISILASITYLSKWSRKPILESYEKKQMFVENASHELRTPLAVLQNRLESFLRKPNETIL  | 253 |
| NTDB id 363 SMU RS05195 WP 002262215.1     | VINTTQLEEANTRYVTIIISVMIVFWLISVTIASVYLAKWSQKPILENYEKQKSFVENASHELRTPLAVLQNRLESFLRKPEATIL | 248 |
| consensus                                  | *****                                                                                  |     |

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| NTDB id 259 KZH43 RS03480 WP 000491790.1   | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFNNTFTNYEMIASENNVRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 218 SPD RS03780 WP 000491790.1     | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFNNTFTNYEMIASENNVRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 184 SPR RS03565 WP 000491790.1     | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFNNTFTNYEMIASENNVRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 148 SP RS03910 WP 000491790.1      | DVSESIASSLEEVRNMRFLTTSLLNLARRDDGIKPELAEVPTSFNNTFTNYEMIASENNVRVFRFENRIHRTIVTDQLLLKQLMT  | 336 |
| NTDB id 64804 SCAZ3 RS09910 WP 003048304.1 | ENSEHLASSLDEVNRMRILTTLNLLNLARRDDGINPQWTDLDAQFFDTIFKNYQLVVEESGKVFRSDNQVNRILKMDKALLKQLMT | 338 |
| NTDB id 363 SMU RS05195 WP 002262215.1     | DSSESIASSLEEVRNMRMLTANLLNLARRDDGIKPEITEIQRPFDDTFKNYEMIARENGKKLHIINKVNRQIKTDTKTLKQLMT   | 333 |
| consensus                                  | *****                                                                                  |     |

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| NTDB id 259 KZH43 RS03480 WP 000491790.1   | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGSLAKQIVDALKGTVTVK | 421 |
| NTDB id 218 SPD RS03780 WP 000491790.1     | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGSLAKQIVDALKGTVTVK | 421 |
| NTDB id 184 SPR RS03565 WP 000491790.1     | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGSLAKQIVDALKGTVTVK | 421 |
| NTDB id 148 SP RS03910 WP 000491790.1      | ILFDNAVKYTEEDGEIDFLISATDRNLYLLVSDNGIGISTEDKKKIFDRFYRVDKARTRQKGGFGLGSLAKQIVDALKGTVTVK | 421 |
| NTDB id 64804 SCAZ3 RS09910 WP 003048304.1 | ILVDNAIKYTDKNGVVEIKVKTTDKTLLISVIDNGPGIKDEEKKKIFDRFYRVDKARTRQTGGFGLGSLAKQIVTSLKGSITVK | 423 |
| NTDB id 363 SMU RS05195 WP 002262215.1     | ILFDNAVKYTDNDGEIWLVDKTTDRSLIFSADNGQGISEDKKKIFDRFYRVDKARTRQKGGFGLGSLAKQITDSLKGSITVK   | 418 |
| consensus                                  | *****                                                                                |     |

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| NTDB id 259 KZH43 RS03480 WP 000491790.1   | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 218 SPD RS03780 WP 000491790.1     | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 184 SPR RS03565 WP 000491790.1     | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 148 SP RS03910 WP 000491790.1      | DNKPKGTIFEVKIAIQTPSKKKK | 444 |
| NTDB id 64804 SCAZ3 RS09910 WP 003048304.1 | DNFPGKSIFEVKL.....      | 436 |
| NTDB id 363 SMU RS05195 WP 002262215.1     | DKKPQGVMEARLLANK.....   | 435 |
| consensus                                  | !***!***!***!*****      |     |

-  non conserved
-  similar
-  ≥ 50% conserved