

|           |                                      |                                                                                                     |    |
|-----------|--------------------------------------|-----------------------------------------------------------------------------------------------------|----|
| NTDB id   | 32 MW RS07995 WP 000472256.1         | .....MFKFL..KKTQAFTLIEMLVLLIISLLLILIPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHNRNP                           | 68 |
| NTDB id   | 16 SA RS07765 WP 000472256.1         | .....MFKFL..KKTQAFTLIEMLVLLIISLLLILIPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHNRNP                           | 68 |
| NTDB id   | 588 KW2 RS10845 WP 051303741.1       | MSKALSLV <del>K</del> IHGRLCQKKQAFTL IEMLVLAIIISILIFLFVPNLTK <b>E</b> KAQVQKTGEAAVVKVVSQAQLYELDHNDK | 80 |
| NTDB id   | 460 GPW51 RS00790 WP 011921720.1     | .....MKKLVEMKVKGFTLVEMLVVLGIISLLLLFVPNLSQQKDIAQCKKGDAAVVKVVSQMELYEHD.EE                             | 68 |
| NTDB id   | 502 SM12261 RS00955 WP 000738641.1   | .....MKKMMTFLKKA <b>V</b> KVAFTLVEMLVLLIISVILLFFVPNLTKQEAVNDKGKAADVVKVVSQAELYSLDKN.ED               | 72 |
| NTDB id   | 272 KZH43 RS09255 WP 000738626.1     | .....MKKMMTFLKKA <b>V</b> KVAFTLVEMLVLLIISVIFLLFVPNLTKQEAVNDKGKAADVVKVVSQAELYSLDKN.ED               | 72 |
| NTDB id   | 231 SPD RS09885 WP 000738626.1       | .....MKKMMTFLKKA <b>V</b> KVAFTLVEMLVLLIISVIFLLFVPNLTKQEAVNDKGKAADVVKVVSQAELYSLDKN.ED               | 72 |
| NTDB id   | 197 SPR RS09420 WP 000738626.1       | .....MKKMMTFLKKA <b>V</b> KVAFTLVEMLVLLIISVIFLLFVPNLTKQEAVNDKGKAADVVKVVSQAELYSLDKN.ED               | 72 |
| NTDB id   | 162 SP RS10370 WP 000738627.1        | .....MKKMMTFLKKA <b>V</b> KVAFTLVEMLVLLIISVIFLLFVPNLTKQEAVNDKGKAADVVKVVSQAELYSLDKN.ED               | 72 |
| NTDB id   | 530 SMSK321 RS09230 WP 000738643.1   | .....MKKMMTFLKKA <b>V</b> KVAFTLVEMLVLLIISVILLFFVPNLTKQEAVNDKGKAADVVKVVSQAELYSLDKN.ED               | 72 |
| NTDB id   | 431 SGO RS09410 WP 012130940.1       | .....MNKLLKLRVKAFTLVEMLVLLIISVIMLLFVPNLTKQEAVSDTGNAADVVKVVSQAELYELKNTGDQ                            | 69 |
| NTDB id   | 1131180 H0513 RS09575 WP 179972346.1 | .....MKLMKKLNNAVKLRAFTLIEMLVLLIISILLFFVPNLSKQKDSVKETGNAAVVKKVD <b>S</b> QAELYELKN <b>N</b> .KT      | 72 |
| NTDB id   | 396 FSA28 RS09395 WP 002263437.1     | .....MKKIKRVSVRAFTLIEMLVLLIISILLFFVPNLTKQKDKVKDTGGSAVVKKVVSQAELYELNK <b>T</b> .DS                   | 68 |
| NTDB id   | 387 SMU RS09025 WP 002263437.1       | .....MKKIKRVSVRAFTLIEMLVLLIISILLFFVPNLTKQKDKVKDTGGSAVVKKVVSQAELYELNK <b>T</b> .DS                   | 68 |
| consensus |                                      | ** * * * * ** * * * *   * * * *   * * * *   * * * *   * * * *   * * * *                             |    |

|           |    |         |         |         |    |             |                                                                             |     |
|-----------|----|---------|---------|---------|----|-------------|-----------------------------------------------------------------------------|-----|
| NTDB      | id | 32      | MW      | RS07995 | WP | 000472256.1 | SSIEDLIADGFIKEAQKTCKSGETITI.SNGEAVAN                                        | 103 |
| NTDB      | id | 16      | SA      | RS07765 | WP | 000472256.1 | SSIEDLIADGFIKEAQKTCKSGETITI.SNGEAVAN                                        | 103 |
| NTDB      | id | 588     | KW2     | RS10845 | WP | 051303741.1 | PNLSELLSAGMITCKQVTAYPD <sup>Y</sup> YDQNKNEQRNFDD                           | 116 |
| NTDB      | id | 460     | GPW51   | RS00790 | WP | 011921720.1 | ATVADLQAKGYITEKQAKQYATAKK.....                                              | 93  |
| NTDB      | id | 502     | SM12261 | RS00955 | WP | 000738641.1 | ASLSKLQADGRITEEQAKAYKEYHAKNTSQTIVAD.                                        | 107 |
| NTDB      | id | 272     | KZH43   | RS09255 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYHDKNGGANR <sup>K</sup> KVND                          | 108 |
| NTDB      | id | 231     | SPD     | RS09885 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYHDKNGGANR <sup>K</sup> KVND                          | 108 |
| NTDB      | id | 197     | SPR     | RS09420 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYHDKNGGANR <sup>K</sup> KVND                          | 108 |
| NTDB      | id | 162     | SP      | RS10370 | WP | 000738627.1 | ASLRKLQADGRITEEQAKAYKEYNDKNGGANR <sup>K</sup> KVND                          | 108 |
| NTDB      | id | 530     | SM321   | RS09230 | WP | 000738643.1 | ASLSKLQADGRITEEQAKAYNEY <sup>Y</sup> YAKNGGANR <sup>K</sup> KVND            | 108 |
| NTDB      | id | 431     | SGO     | RS09410 | WP | 012130940.1 | ATLSKLVAAGNISQKQADS <sup>Y</sup> KAYY <sup>G</sup> K <sup>N</sup> SETQAVAN  | 105 |
| NTDB      | id | 1131180 | H0513   | RS09575 | WP | 179972346.1 | ASLAALVSEGGITCKQADS <sup>Y</sup> ND <sup>Y</sup> YAKHGSES <sup>R</sup> SVAN | 108 |
| NTDB      | id | 396     | FSA28   | RS09395 | WP | 002263437.1 | ATLSKLVASGDITQEQANSYKDY <sup>Y</sup> AKHPSKTR <sup>H</sup> HVAN             | 104 |
| NTDB      | id | 387     | SMU     | RS09025 | WP | 002263437.1 | ATLSKLVASGDITQEQANSYKDY <sup>Y</sup> AKHPSKTR <sup>H</sup> HVAN             | 104 |
| consensus |    |         |         |         |    |             | *** * ! * * ! ! * * ! * * * * * * *                                         |     |

- X non conserved
- X similar
- X  $\geq 50\%$  conserved