

|         |         |         |         |    |             |        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |    |    |   |  |    |
|---------|---------|---------|---------|----|-------------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|----|----|---|--|----|
| NTDB id | 1114204 | B6D67   | RS00655 | WP | 002986552.1 | .....  | M | I | N | Q | W | N | N | R | H | K | L | K | G | F | T | L | E | M | L | V | I | L | V | I | S | V | L | M | L | F | V | P | N | L | S | K | Q | K | D | R | V | T | E | T | G | N | A | A | V | V | K | L | V | E | N | Q | A | E | L | Y | E | L | S | Q | G | . | S | K  |   | 72 |    |   |  |    |
| NTDB id | 588     | KW2     | RS10845 | WP | 051303741.1 | MSKALS | L | V | K | I | H | G | R | K | L | C | Q | K | K | Q | K | A | F | T | L | E | M | L | I | V | L | A | I | I | S | I | L | I | L | F | V | P | N | L | T | K | E | K | A | Q | V | Q | K | T | G | E | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | D | H  | D | N  | .  | K |  | 80 |
| NTDB id | 460     | GPW51   | RS00790 | WP | 011921720.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | S | Q | Q | K | D | A | I | Q | K | G | D | A | A | V | V | K | V | V | E | S | Q | M | E | L | Y | E | L | H | D | . | E |   | 68 |   |    |    |   |  |    |
| NTDB id | 502     | SM12261 | RS00955 | WP | 000738641.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | T | K | Q | E | A | V | N | D | K | G | K | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | S | L | D | K | N | .  | E |    | 72 |   |  |    |
| NTDB id | 272     | KZH43   | RS09255 | WP | 000738626.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | T | K | Q | E | A | V | N | D | K | G | K | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | S | L | E | K | N | .  | E |    | 72 |   |  |    |
| NTDB id | 231     | SPD     | RS09885 | WP | 000738626.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | T | K | Q | E | A | V | N | D | K | G | K | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | S | L | E | K | N | .  | E |    | 72 |   |  |    |
| NTDB id | 197     | SPR     | RS09420 | WP | 000738626.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | T | K | Q | E | A | V | N | D | K | G | K | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | S | L | E | K | N | .  | E |    | 72 |   |  |    |
| NTDB id | 162     | SP      | RS10370 | WP | 000738627.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | T | K | Q | E | A | V | N | D | K | G | K | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | S | L | E | K | N | .  | E |    | 72 |   |  |    |
| NTDB id | 530     | SMSK321 | RS09230 | WP | 000738643.1 | .....  | M | K | K | M | T | F | L | K | K | A | K | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | F | L | F | V | P | N | L | T | K | Q | E | A | V | N | D | K | G | K | A | A | V | V | K | V | V | E | S | Q | A | E | L | Y | E | L | S | L | D | K | N | .  | E |    | 72 |   |  |    |
| NTDB id | 431     | SGO     | RS09410 | WP | 012130940.1 | .....  | M | N | K | L | K | L | R | V | K | A | F | T | L | E | M | L | V | V | L | I | I | S | V | L | M | L | F | V | P | N | L | T | K | Q | E | A |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |    |    |   |  |    |

|                  |                                      |                                                                         |       |
|------------------|--------------------------------------|-------------------------------------------------------------------------|-------|
| NTDB id          | 1114204 B6D67 RS00655 WP 002986552.1 | P S L S Q L K A D G S I T E K Q E K A Y Q D P Y D K H K N E K A R L S N | 108   |
| NTDB id          | 588 KW2 RS10845 WP 051303741.1       | P N L S E L L S A G M I T C K Q V T A Y D D Y D Q N K N E Q R N F D D   | 116   |
| NTDB id          | 460 GPW51 RS00790 WP 011921720.1     | A T V A D L Q A K G Y I T E K Q A K Q Y A T A K K . . . . .             | 93    |
| NTDB id          | 502 SM12261 RS00955 WP 000738641.1   | A S L S K L Q A D G R I T E E Q A K A Y K E Y H A K N T S Q T V A D .   | 107   |
| NTDB id          | 272 KZH43 RS09255 WP 000738626.1     | A S L R K L Q A D G R I T E E Q A K A Y K E Y H D K N G G A N R K V N D | 108   |
| NTDB id          | 231 SPD RS09885 WP 000738626.1       | A S L R K L Q A D G R I T E E Q A K A Y K E Y H D K N G G A N R K V N D | 108   |
| NTDB id          | 197 SPR RS09420 WP 000738626.1       | A S L R K L Q A D G R I T E E Q A K A Y K E Y H D K N G G A N R K V N D | 108   |
| NTDB id          | 162 SP RS10370 WP 000738627.1        | A S L R K L Q A D G R I T E E Q A K A Y K E Y N D K N G G A N R K V N D | 108   |
| NTDB id          | 530 SMSK321 RS09230 WP 000738643.1   | A S L S K L Q A D G R I T E E Q A K A Y N E Y Y A K N G G A N R K V N D | 108   |
| NTDB id          | 431 SGO RS09410 WP 012130940.1       | A T L S K L V A A G N I S Q K Q A D S Y K A Y Y G K N N S E T Q A V A N | 105   |
| NTDB id          | 396 FSA28 RS09395 WP 002263437.1     | A T L S K L V A S G D I T Q E A N S Y K D Y Y A K H P S K T R H V A N   | 104   |
| NTDB id          | 387 SMU RS09025 WP 002263437.1       | A T L S K L V A S G D I T Q E A N S Y K D Y Y A K H P S K T R H V A N   | 104   |
| <b>consensus</b> |                                      | * * * * * ! * * * ! * * * ! * * * ! * * *                               | * * * |

- X non conserved
- X similar
- X >50% conserved