

|                 |         |         |                |          |         |       |         |         |           |           |          |      |       |        |        |        |       |      |      |     |     |    |
|-----------------|---------|---------|----------------|----------|---------|-------|---------|---------|-----------|-----------|----------|------|-------|--------|--------|--------|-------|------|------|-----|-----|----|
| NTDB id 1136781 | DQL27   | RS00785 | WP 002986552.1 | .....    | MINQWNN | RHKK  | KGFTL   | LEML    | LVIL      | VISVL     | MLLFVPNL | SKQK | DRVT  | TETG   | NAAVVK | LVEN   | QAELY | EL   | SQG  | .SK | 72  |    |
| NTDB id 588     | KW2     | RS10845 | WP 051303741.1 | MSKALSLV | KIHGRK  | LCKK  | QKAFTL  | TEML    | IVLA      | IIISIL    | ILLFVPNL | TK   | EKAQV | QKTG   | EAAVVK | VVVSQA | QLY   | EL   | DHND | .K  | 80  |    |
| NTDB id 460     | GPW51   | RS00790 | WP 011921720.1 | .....    | MKKL    | VEMKV | KGFTL   | VEML    | VVLGI     | ISIL      | LLFVPNL  | SQLK | DAIQ  | KKGD   | AAVVKV | VVSQ   | MELY  | EL   | EHD  | .EE | 68  |    |
| NTDB id 502     | SM12261 | RS00955 | WP 000738641.1 | .....    | MKKMM   | TF    | LKKA    | KVKAFTL | VEML      | VLLIIISVL | ILLFVPNL | TKQ  | KEAV  | NDKG   | AAVVKV | VVSQA  | EYLS  | L    | EKN  | .ED | 72  |    |
| NTDB id 272     | KZH43   | RS09255 | WP 000738626.1 | .....    | MKKMM   | TF    | LKKA    | KVKAFTL | VEML      | VLLIIISVL | ILLFVPNL | TKQ  | KEAV  | NDKG   | AAVVKV | VVSQA  | EYLS  | L    | EKN  | .ED | 72  |    |
| NTDB id 231     | SPD     | RS09885 | WP 000738626.1 | .....    | MKKMM   | TF    | LKKA    | KVKAFTL | VEML      | VLLIIISVL | ILLFVPNL | TKQ  | KEAV  | NDKG   | AAVVKV | VVSQA  | EYLS  | L    | EKN  | .ED | 72  |    |
| NTDB id 197     | SPR     | RS09420 | WP 000738626.1 | .....    | MKKMM   | TF    | LKKA    | KVKAFTL | VEML      | VLLIIISVL | ILLFVPNL | TKQ  | KEAV  | NDKG   | AAVVKV | VVSQA  | EYLS  | L    | EKN  | .ED | 72  |    |
| NTDB id 162     | SP      | RS10370 | WP 000738627.1 | .....    | MKKMM   | TF    | LKKA    | KVKAFTL | VEML      | VLLIIISVL | ILLFVPNL | TKQ  | KEAV  | NDKG   | AAVVKV | VVSQA  | EYLS  | L    | EKN  | .ED | 72  |    |
| NTDB id 530     | SMSK321 | RS09230 | WP 000738643.1 | .....    | MKKMM   | TF    | LKKA    | KVKAFTL | VEML      | VLLIIISVL | ILLFVPNL | TKQ  | KEAV  | NDKG   | AAVVKV | VVSQA  | EYLS  | L    | EKN  | .ED | 72  |    |
| NTDB id 431     | SGO     | RS09410 | WP 012130940.1 | .....    | MNK     | LKKL  | RVKAFTL | VEML    | VLLIIISVL | MLLFVPNL  | TKQ      | KEAV | SDTG  | NAAVVK | VVVSQA | EYLS   | EL    | KNTG | .DQ  | 69  |     |    |
| NTDB id 396     | FSA28   | RS09395 | WP 002263437.1 | .....    | MKK     | L     | KRVSV   | RAFTL   | TEML      | VLLIIISIL | ILLFVPNL | TKQ  | DK    | KD     | TGGS   | AAVVKV | VVSQA | EYLS | EL   | NKT | .DS | 68 |
| NTDB id 387     | SMU     | RS09025 | WP 002263437.1 | .....    | MKK     | L     | KRVSV   | RAFTL   | TEML      | VLLIIISIL | ILLFVPNL | TKQ  | DK    | KD     | TGGS   | AAVVKV | VVSQA | EYLS | EL   | NKT | .DS | 68 |
| consensus       |         |         |                |          | **      | *     | **      | **      | **        | **        | *        | *    | *     | *      | **     | **     | **    | **   | *    | *   | **  |    |

|           |                                      |                                                                         |     |
|-----------|--------------------------------------|-------------------------------------------------------------------------|-----|
| NTDB id   | 1136781 DQL27 RS00785 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 Y 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 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 C 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 Q 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 Q A N S Y K D Y Y A K H P S K T R H V A N | 104 |
| consensus |                                      | * * * * * ! * * * ! * * * ! * * * ! * * * ! * * * ! * * *               |     |

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