

|               |                                |           |      |       |       |        |       |      |       |       |       |      |       |       |        |           |           |           |    |    |
|---------------|--------------------------------|-----------|------|-------|-------|--------|-------|------|-------|-------|-------|------|-------|-------|--------|-----------|-----------|-----------|----|----|
| NTDB id 98    | BSU 24710 NP 390351.1          | .....MNEK | GFTL | VEMLV | IVLFI | ISIL   | LLIT  | IPNV | TKHN  | QTIG  | KKGC  | EGIQ | NMVK  | AQMT  | AFEL   | DHEG      | QT        | 63        |    |    |
| NTDB id 66754 | SAJPND4 RS07565 WP 000472256.1 | .....MFKF | ..L  | KK    | QT    | QAFTL  | TEML  | VLLI | ISIL  | LLIT  | IPNI  | AKQT | TAHI  | QSTG  | CNAQ   | VKMV      | NSQIEA    | YALKHVRNP | 68 |    |
| NTDB id 32    | MW RS07995 WP 000472256.1      | .....MFKF | ..L  | KK    | QT    | QAFTL  | TEML  | VLLI | ISIL  | LLIT  | IPNI  | AKQT | TAHI  | QSTG  | CNAQ   | VKMV      | NSQIEA    | YALKHVRNP | 68 |    |
| NTDB id 16    | SA RS07765 WP 000472256.1      | .....MFKF | ..L  | KK    | QT    | QAFTL  | TEML  | VLLI | ISIL  | LLIT  | IPNI  | AKQT | TAHI  | QSTG  | CNAQ   | VKMV      | NSQIEA    | YALKHVRNP | 68 |    |
| NTDB id 588   | KW RS10845 WP 051303741.1      | MSKALS    | LVKI | HGRK  | LCQK  | KKQA   | FTL   | TEML | IVLAI | ISIL  | LLFV  | PNLT | KK    | KAQV  | QKTG   | EAAV      | VKVVSQAEL | YELDHDNDK | 80 |    |
| NTDB id 460   | GPW51 RS00790 WP 011921720.1   | .....MKKL | VEMK | VKG   | GFTL  | VEMLV  | VVLGI | ISIL | LLFV  | PNLS  | QQKDA | IG   | KKGD  | AAV   | VKVVSQ | MEL       | YELHDE    | .E        | 68 |    |
| NTDB id 431   | SGO RS09410 WP 012130940.1     | .....MNKL | KKL  | RV    | KAFTL | VEMLV  | VLLI  | ISIL | MLLF  | VPNLT | TKQK  | EA   | VS    | DTG   | NAAV   | VKVVSQAEL | YELKNTGDQ | 69        |    |    |
| NTDB id 502   | SM12261 RS00955 WP 000738641.1 | .....MKK  | MT   | FL    | KKAK  | VKAFTL | VEMLV | VLLI | ISIL  | LLFV  | PNLT  | TKQK | EA    | VND   | KGK    | AAV       | VKVVSQAEL | YSLDKNE   | .D | 72 |
| NTDB id 162   | SP RS10370 WP 000738627.1      | .....MKK  | MT   | FL    | KKAK  | VKAFTL | VEMLV | VLLI | ISIL  | LLFV  | PNLT  | TKQK | EA    | VND   | KGK    | AAV       | VKVVSQAEL | YSLDKNE   | .D | 72 |
| NTDB id 272   | KZH43 RS09255 WP 000738626.1   | .....MKK  | MT   | FL    | KKAK  | VKAFTL | VEMLV | VLLI | ISIL  | LLFV  | PNLT  | TKQK | EA    | VND   | KGK    | AAV       | VKVVSQAEL | YSLDKNE   | .D | 72 |
| NTDB id 231   | SPD RS09885 WP 000738626.1     | .....MKK  | MT   | FL    | KKAK  | VKAFTL | VEMLV | VLLI | ISIL  | LLFV  | PNLT  | TKQK | EA    | VND   | KGK    | AAV       | VKVVSQAEL | YSLDKNE   | .D | 72 |
| NTDB id 197   | SPR RS09420 WP 000738626.1     | .....MKK  | MT   | FL    | KKAK  | VKAFTL | VEMLV | VLLI | ISIL  | LLFV  | PNLT  | TKQK | EA    | VND   | KGK    | AAV       | VKVVSQAEL | YSLDKNE   | .D | 72 |
| NTDB id 530   | SMSK321 RS09230 WP 000738643.1 | .....MKK  | MT   | FL    | KKAK  | VKAFTL | VEMLV | VLLI | ISIL  | LLFV  | PNLT  | TKQK | EA    | VND   | KGK    | AAV       | VKVVSQAEL | YSLDKNE   | .D | 72 |
| consensus     |                                | ***       | ***  |       |       | *****  | !!!!  | *    | !!!!  | ***** | !!!!  | *    | ***** | ***** | *      | *****     | *****     | !!!!      | *  |    |

|               |                                |                                       |     |
|---------------|--------------------------------|---------------------------------------|-----|
| NTDB id 98    | BSU 24710 NP 390351.1          | PSLADLQSEGYVKKDAV.CPNGKRIIITGGEVKEVH  | 98  |
| NTDB id 66754 | SAJPND4 RS07565 WP 000472256.1 | SSIEDLHADGFIKEAQTCKSGETITISNCEA.VAN   | 103 |
| NTDB id 32    | MW RS07995 WP 000472256.1      | SSIEDLHADGFIKEAQTCKSGETITISNCEA.VAN   | 103 |
| NTDB id 16    | SA RS07765 WP 000472256.1      | SSIEDLHADGFIKEAQTCKSGETITISNCEA.VAN   | 103 |
| NTDB id 588   | KW2 RS10845 WP 051303741.1     | PNLSELLSAGMITCKQVTAYYDDYYDQNKNEQRNFDD | 116 |
| NTDB id 460   | GPW51 RS00790 WP 011921720.1   | ATVADLQAKGYITEKQAKQYATAKK.....        | 93  |
| NTDB id 431   | SGO RS09410 WP 012130940.1     | ATLSKLVAAGNLSQKQADSYPKAYYGKINSETQAVAN | 105 |
| NTDB id 502   | SM12261 RS00955 WP 000738641.1 | ASLSKLQADGRITEEQAKAYKEYHAKQNTSQTVA.D  | 107 |
| NTDB id 162   | SP RS10370 WP 000738627.1      | ASLRKLQADGRITEEQAKAYKEYNDKNGGANRNVND  | 108 |
| NTDB id 272   | KZH43 RS09255 WP 000738626.1   | ASLRKLQADGRITEEQAKAYKEYHDKNGGANRNVND  | 108 |
| NTDB id 231   | SPD RS09885 WP 000738626.1     | ASLRKLQADGRITEEQAKAYKEYHDKNGGANRNVND  | 108 |
| NTDB id 197   | SPR RS09420 WP 000738626.1     | ASLRKLQADGRITEEQAKAYKEYHDKNGGANRNVND  | 108 |
| NTDB id 530   | SMSK321 RS09230 WP 000738643.1 | ASLSKLQADGRITEEQAKAYNEYAKNGGANRNVND   | 108 |
| consensus     |                                | *** ! * * * ! * * * * * * * * * * *   |     |

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