

|           |         |                                |                 |                                                                     |                                                |    |
|-----------|---------|--------------------------------|-----------------|---------------------------------------------------------------------|------------------------------------------------|----|
| NTDB id   | 98      | BSU 24710 NP 390351.1          | .....MNEK       | GFTLVEMLIVLF                                                        | IISLLILITPNVTKHNQTIGKKGCEGLQNMVKAQMATAFLDHEGQT | 63 |
| NTDB id   | 1006720 | UXQ45 RS08165 WP 000472256.1   | .....MFKF       | .LKKTQAFTLTLEMLVLLIISLLILLITPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHVRNP   | 68                                             |    |
| NTDB id   | 32      | MW RS07995 WP 000472256.1      | .....MFKF       | .LKKTQAFTLTLEMLVLLIISLLILLITPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHVRNP   | 68                                             |    |
| NTDB id   | 16      | SA RS07765 WP 000472256.1      | .....MFKF       | .LKKTQAFTLTLEMLVLLIISLLILLITPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHVRNP   | 68                                             |    |
| NTDB id   | 588     | KW2 RS10845 WP 051303741.1     | MSKALSLVKIHGRKL | CQKKQKAFTLTLEMLIVLAIIISLLILLFVPNLTKKEAQQVQKTGEAAAVKVVSQAELYLHDNDK   | 80                                             |    |
| NTDB id   | 460     | GPW51 RS00790 WP 011921720.1   | .....MKKL       | VEMKVKGFTLVEMLVVLGIISLLLLFVPNLSQKKDAIQCKGDAAVVKVVESQMELYELHDE.E     | 68                                             |    |
| NTDB id   | 431     | SGO RS09410 WP 012130940.1     | .....MNKL       | KKLVKAFTLVEMLVLLIISVLMLLFVPNLTKQKEAVSDTGNAAVVKVVESQAELYELKNTGDQ     | 69                                             |    |
| NTDB id   | 502     | SM12261 RS00955 WP 000738641.1 | .....MKKMMT     | FLLKKAQVKAFTLVEMLVLLIISVLLLLFVPNLTKQKEAVNDKGKAAAVKVVSQAELYSLDKNE.D  | 72                                             |    |
| NTDB id   | 162     | SP RS10370 WP 000738627.1      | .....MKKMMT     | FLLKKAQVKAFTLVEMLVLLIISVLLFFVPNLTKQKEAVNDKGKAAAVKVVSQAELYSLDKNE.D   | 72                                             |    |
| NTDB id   | 272     | KZH43 RS09255 WP 000738626.1   | .....MKKMMT     | FLLKKAQVKAFTLVEMLVLLIISVLLFFVPNLTKQKEAVNDKGKAAAVKVVSQAELYSLDKNE.D   | 72                                             |    |
| NTDB id   | 231     | SPD RS09885 WP 000738626.1     | .....MKKMMT     | FLLKKAQVKAFTLVEMLVLLIISVLLFFVPNLTKQKEAVNDKGKAAAVKVVSQAELYSLDKNE.D   | 72                                             |    |
| NTDB id   | 197     | SPR RS09420 WP 000738626.1     | .....MKKMMT     | FLLKKAQVKAFTLVEMLVLLIISVLLFFVPNLTKQKEAVNDKGKAAAVKVVSQAELYSLDKNE.D   | 72                                             |    |
| NTDB id   | 530     | SMSK321 RS09230 WP 000738643.1 | .....MKKMMT     | FLLKKAQVKAFTLVEMLVLLIISVLLFFVPNLTKQKEAVNDKGKAAAVKVVSQAELYSLDKNE.D   | 72                                             |    |
| consensus |         |                                | ** ** *         | * * * * * ! ! ! * ! ! ! ! ! * ! * * * * * ! * ! * * * * * ! * ! * * |                                                |    |

|           |    |         |                                |                                       |     |
|-----------|----|---------|--------------------------------|---------------------------------------|-----|
| NTDB      | id | 98      | BSU 24710 NP 390351.1          | PSLADLQSEGYVKKDAV.CPNGKRIIITGGEVKEV   | 98  |
| NTDB      | id | 1006720 | UXQ45 RS08165 WP 000472256.1   | SSIEDLIADGFIKEAQTCKSGETITISNCEA.VAN   | 103 |
| NTDB      | id | 32      | MW RS07995 WP 000472256.1      | SSIEDLIADGFIKEAQTCKSGETITISNCEA.VAN   | 103 |
| NTDB      | id | 16      | SA RS07765 WP 000472256.1      | SSIEDLIADGFIKEAQTCKSGETITISNCEA.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