

|           |        |                                |                                                                                    |    |
|-----------|--------|--------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id   | 619    | LCA RS06470 WP 011374999.1     | .....MKKKRAKAFTL IEMVVLAITALLILLVAPNLGAQKQRAEKTDDQALVTTLTQTQVELASDEIGHQI           | 65 |
| NTDB id   | 234323 | CC204 RS06680 WP 088269464.1   | .....MIKKKQKINYSGFLLLEMLVVLIIISVLI LLFVPNLSKHKGAGVDKKGNEAIVKIVETQIDLYVMEN..QT      | 69 |
| NTDB id   | 588    | KW2 RS10845 WP 051303741.1     | MSKALS LVKIHGRLCQKKQKAFTL IEMLVLAIIISILILLFVPNLIKEKAQVKGTGEAAVVKVVESQAQLYELDHDNDK  | 80 |
| NTDB id   | 460    | GPW51 RS00790 WP 011921720.1   | .....MKKLLEMVKMGFTLVEMLVVLGIIISLLLLFVPNLSQQKDIAIKQGDAAVVKVVESQMELYELEHDE.EE        | 68 |
| NTDB id   | 502    | SM12261 RS00955 WP 000738641.1 | .....MKKMMTF LKKA KVKAFTLVEMLVVLIIISVLI LLFVPNLTKQKEAVNDKGKA AVVKVVESQAELYSLEKN.ED | 72 |
| NTDB id   | 272    | KZH43 RS09255 WP 000738626.1   | .....MKKMMTF LKKA KVKAFTLVEMLVVLIIISVLFLLFVPNLTKQKEAVNDKGKA AVVKVVESQAELYSLEKN.ED  | 72 |
| NTDB id   | 231    | SPD RS09885 WP 000738626.1     | .....MKKMMTF LKKA KVKAFTLVEMLVVLIIISVLFLLFVPNLTKQKEAVNDKGKA AVVKVVESQAELYSLEKN.ED  | 72 |
| NTDB id   | 197    | SPR RS09420 WP 000738626.1     | .....MKKMMTF LKKA KVKAFTLVEMLVVLIIISVLFLLFVPNLTKQKEAVNDKGKA AVVKVVESQAELYSLEKN.ED  | 72 |
| NTDB id   | 162    | SP RS10370 WP 000738627.1      | .....MKKMMTF LKKA KVKAFTLVEMLVVLIIISVLFLLFVPNLTKQKEAVNDKGKA AVVKVVESQAELYSLEKN.ED  | 72 |
| NTDB id   | 530    | SMSK321 RS09230 WP 000738643.1 | .....MKKMMTF LKKA KVKAFTLVEMLVVLIIISVLI LLFVPNLTKQKEAVNDKGKA AVVKVVESQAELYSLEKN.ED | 72 |
| NTDB id   | 431    | SGO RS09410 WP 012130940.1     | .....MNK LKKLR VKAFTLVEMLVVLIIISVLM L FVPNLTKQKEAVSDTGNA AVVKVVESQAELYELKNTGDQ     | 69 |
| NTDB id   | 396    | FSA28 RS09395 WP 002263437.1   | .....MKKTKRVSVRAFTL IEMLVVLIIISILLLLFPNLTQKQDKVKDGTGS AVVKVVESQAELYELNKTD.S        | 68 |
| NTDB id   | 387    | SMU RS09025 WP 002263437.1     | .....MKKTKRVSVRAFTL IEMLVVLIIISILLLLFPNLTQKQDKVKDGTGS AVVKVVESQAELYELNKTD.S        | 68 |
| consensus |        |                                | * * * * *                                                                          |    |

|           |    |        |         |         |    |             |                                        |     |
|-----------|----|--------|---------|---------|----|-------------|----------------------------------------|-----|
| NTDB      | id | 619    | LCA     | RS06470 | WP | 011374999.1 | KSLDE.LTDKYISKDQLKHAKEKGITIEGGTVKQK.   | 99  |
| NTDB      | id | 234323 | CC204   | RS06680 | WP | 088269464.1 | PTVEQILLKEEYITKEQYKEYVQASEK.....       | 94  |
| NTDB      | id | 588    | KW2     | RS10845 | WP | 051303741.1 | PNLSELLSAGMITQKQVTA YDDY YDQNKNEQRNFDD | 116 |
| NTDB      | id | 460    | GPW51   | RS00790 | WP | 011921720.1 | ATVADLQAKGYITEKQAKQYATAK.....          | 93  |
| NTDB      | id | 502    | SM12261 | RS00955 | WP | 000738641.1 | ASLSKLQADGRITEEQAKAYKEYHAKNNTSQTVD.    | 107 |
| NTDB      | id | 272    | KZH43   | RS09255 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYYHDKNGGANRKVND  | 108 |
| NTDB      | id | 231    | SPD     | RS09885 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYYHDKNGGANRKVND  | 108 |
| NTDB      | id | 197    | SPR     | RS09420 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYYHDKNGGANRKVND  | 108 |
| NTDB      | id | 162    | SPR     | RS10370 | WP | 000738627.1 | ASLRKLQADGRITEEQAKAYKEYYHDKNGGANRKVND  | 108 |
| NTDB      | id | 530    | SMSK321 | RS09230 | WP | 000738643.1 | ASLSKLQADGRITEEQAKAYNEYAKNGGANRKVND    | 108 |
| NTDB      | id | 431    | SGO     | RS09410 | WP | 012130940.1 | ATLSKLVAAGNISQKQADS YKAYYGKNNSETQAVAN  | 105 |
| NTDB      | id | 396    | FSA28   | RS09395 | WP | 002263437.1 | ATLSKLVASGDITQEQANSYKDYAKHPSKTRHVAN    | 104 |
| NTDB      | id | 387    | SMU     | RS09025 | WP | 002263437.1 | ATLSKLVASGDITQEQANSYKDYAKHPSKTRHVAN    | 104 |
| consensus |    |        |         |         |    |             | *** ** * * * ! * ! * * * * * * * *     |     |

-  non conserved
-  similar
-  > 50% conserved