

|                                             |              |                                     |                                                        |    |
|---------------------------------------------|--------------|-------------------------------------|--------------------------------------------------------|----|
| NTDB id 1250 GC085 RS13065 WP 027219989.1   | ..MNNLQLPLLA | LNRMKRIGP....RTVLKLQKRPDLNLMFQLSSV  | DLEEAGLPSWLAQTIKNFDPDFIKTDLNLWLSSS                     | 73 |
| NTDB id 599 KW2 RS05940 WP 021037268.1      | .MITNFD....  | LFRWKKAGMTNLGVNKLKLFRRKYDRKISLRQM.. | GQVAQVKKSIPNFIEQYKNQDVKKLRADYKKFS..                    | 71 |
| NTDB id 525 SMSK321 RS06295 WP 000705298.1  | MKITNYE....  | IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..  | ADISGCRNPAVFMERYFQIDDAHLEKEFKKIP..                     | 72 |
| NTDB id 267 KZH43 RS05590 WP 000705306.1    | MKITNYE....  | IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..  | ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP..                     | 72 |
| NTDB id 226 SPD RS05990 WP 000705306.1      | MKITNYE....  | IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..  | ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP..                     | 72 |
| NTDB id 192 SPR RS05715 WP 000705306.1      | MKITNYE....  | IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..  | ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP..                     | 72 |
| NTDB id 157 SP RS06205 WP 000705306.1       | MKITNYE....  | IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..  | ADISGCRNPAVFMERYFQIDDAHLSKEFQKFP..                     | 72 |
| NTDB id 497 SM12261 RS05565 WP 000705318.1  | MKITNYE....  | IYKLKKSGLTNQQVLA                    | AVLEYGENVDQELLGDI..AEISGCRNPAVFMERYFQIDDAHLEKEFQKFP..  | 72 |
| NTDB id 341274 ETT67 RS04720 WP 023079425.1 | ..MNHFE....  | LYKLKKAAGLTNKNILN                   | IILDYQEHQEKSLSLRDM..AVVSGCKHPSHFIEAYKQLDIQKLKMEFKQFP.. | 70 |
| NTDB id 407 SMU RS04605 WP 002262865.1      | ..MDNFG....  | LFLKKAAGLTNKNILN                    | IIDIYEERTQKSLSLRDM..AVVSKNKKPLIFMEHYKNLDSKALRKEFNRF..  | 70 |
| consensus                                   | *****        | *****!*****                         | *****!*****                                            |    |

[illegible][illegible]

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|                                             |                                                                                                                                                                  |     |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| NTDB id 1250 GC085 RS13065 WP 027219989.1   | SGSLITARMAL <b>E</b> QNRDVLAI <b>P</b> GS <b>I</b> H <b>N</b> PLARGCHYL <b>L</b> QQGAKLVT <b>S</b> VADVLDELKIEHHQFTSNKPIFSLASGKENLVKFI                           | 313 |
| NTDB id 599 KW2 RS05940 WP 021037268.1      | SGSLITCERALEEGRD <b>I</b> FAIPGN <b>I</b> ADGTSDGCNHL <b>I</b> QQGAKLVYQAQD <b>I</b> LEEYLYN                                                                     | 282 |
| NTDB id 525 SMSK321 RS06295 WP 000705298.1  | SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHL <b>I</b> QEGAKLVTSGQDVLA <b>E</b> FEF                                                                                        | 282 |
| NTDB id 267 KZH43 RS05590 WP 000705306.1    | SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHL <b>I</b> QEGAKLVTSGQDVLA <b>E</b> FEF                                                                                        | 282 |
| NTDB id 226 SPD RS05990 WP 000705306.1      | SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHL <b>I</b> QEGAKLVTSGQDVLA <b>E</b> FEF                                                                                        | 282 |
| NTDB id 192 SPR RS05715 WP 000705306.1      | SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHL <b>I</b> QEGAKLVTSGQDVLA <b>E</b> FEF                                                                                        | 282 |
| NTDB id 157 SP RS06205 WP 000705306.1       | SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHL <b>I</b> QEGAKLVTSGQDVLA <b>E</b> FEF                                                                                        | 282 |
| NTDB id 497 SM12261 RS05565 WP 000705318.1  | SGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHL <b>I</b> QEGAKLVTSGQDVLA <b>E</b> FEF                                                                                        | 282 |
| NTDB id 341274 ETT67 RS04720 WP 023079425.1 | SGSLITC <b>Q</b> I <b>C</b> I <b>E</b> EDRD <b>I</b> FAVPGN <b>I</b> LDGK <b>S</b> EGCLQL <b>I</b> KEGATCVTSGMD <b>I</b> LSEY                                    | 278 |
| NTDB id 407 SMU RS04605 WP 002262865.1      | SGSLITCERAMEEGRDV <b>F</b> V <b>V</b> PGN <b>I</b> LDG <b>Q</b> <b>S</b> EGCHHL <b>I</b> QEGAK <b>C</b> <b>I</b> TS <b>G</b> FD <b>I</b> LN <b>E</b> FN <b>F</b> | 280 |
| consensus                                   | !!!!!!!!*****!***!*****!*!*****!***!*****!*****!***!***                                                                                                          |     |

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|                                             |                                                                                                                                                                                                |     |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| NTDB id 1250 GC085 RS13065 WP 027219989.1   | GFETTT <b>I</b> D <b>Q</b> <b>I</b> IDRS <b>G</b> Y <b>G</b> MEQ <b>V</b> TS <b>G</b> LA <b>E</b> LE <b>L</b> KGA <b>V</b> I <b>A</b> VP <b>G</b> G <b>Y</b> <b>I</b> R <b>C</b> EY <b>E</b> R | 361 |
| NTDB id 599 KW2 RS05940 WP 021037268.1      | GFETTTIDQIIDRSYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER                                                                                                                                                | 282 |
| NTDB id 525 SMSK321 RS06295 WP 000705298.1  | .....                                                                                                                                                                                          | 282 |
| NTDB id 267 KZH43 RS05590 WP 000705306.1    | .....                                                                                                                                                                                          | 282 |
| NTDB id 226 SPD RS05990 WP 000705306.1      | .....                                                                                                                                                                                          | 282 |
| NTDB id 192 SPR RS05715 WP 000705306.1      | .....                                                                                                                                                                                          | 282 |
| NTDB id 157 SP RS06205 WP 000705306.1       | .....                                                                                                                                                                                          | 282 |
| NTDB id 497 SM12261 RS05565 WP 000705318.1  | .....                                                                                                                                                                                          | 282 |
| NTDB id 341274 ETT67 RS04720 WP 023079425.1 | .....                                                                                                                                                                                          | 278 |
| NTDB id 407 SMU RS04605 WP 002262865.1      | .....                                                                                                                                                                                          | 280 |
| consensus                                   |                                                                                                                                                                                                |     |

-  non conserved
-  similar
-  ≥ 50% conserved