

|           |                                         |                                                                                     |    |
|-----------|-----------------------------------------|-------------------------------------------------------------------------------------|----|
| NTDB id   | 1250 GC085 RS13065 WP 027219989.1       | ..MNNLQLLLA.LNRMKRIG....PRTVLKLQKRPDLNL.MFQLSSVDLEEAGLP.SWLAQTIKNFDPDFIKTDLNLWLSSS  | 73 |
| NTDB id   | 599 KW2 RS05940 WP 021037268.1          | .MITNFD....LFRWKKGAMTNLGVNKLLKFFRKYDRKISLRQM..GGVAQVK.SIPNFIEIQYKNQDVKKLRADYKKFS..  | 71 |
| NTDB id   | 525 SMSK321 RS06295 WP 000705298.1      | MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNP.AVFMEFYFQIDDAHLEKEFKKTP..    | 72 |
| NTDB id   | 267 KZH43 RS05590 WP 000705306.1        | MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNP.AVFMEFYFQIDDAHLSEKFQKFP..    | 72 |
| NTDB id   | 226 SPD RS05990 WP 000705306.1          | MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNP.AVFMEFYFQIDDAHLSKEFQKFP..    | 72 |
| NTDB id   | 192 SPR RS05715 WP 000705306.1          | MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNP.AVFMEFYFQIDDAHLSEKFQKFP..    | 72 |
| NTDB id   | 157 SP RS06205 WP 000705306.1           | MKITNYE....IYKLKKSGLTNQQILKVLEYGENVDQELLGDI..ADISGCRNP.AVFMEFYFQIDDAHLSEKFQKFP..    | 72 |
| NTDB id   | 497 SM12261 RS05565 WP 000705318.1      | MKITNYE....IYKLKKSGLTNQQVLA.VLEYGENVDQELLGDI..AEISGCRNP.AVFMEFYFQIDDAHLEKEFQKFP..   | 72 |
| NTDB id   | 978856 MGAS37856 RS04515 WP 010922314.1 | ..MNHFE....LYKLKKA.GLTNKNLNILN.TLDYQKHQEKSLSRDM..AVVSGCKHP.SHFTIAYKQLDIQNLMEFKQFP.. | 70 |
| NTDB id   | 407 SMU RS04605 WP 002262865.1          | ..MDNFQ....LFKLKKA.GLTNLNILN.IIDYEERTQKSLSRDM..AVVSKNKKPLIFMEHYKNLDSKALRKEFNRFP..   | 70 |
| consensus |                                         | *****!***!!*****                                                                    |    |

[illegible]

|           |                                         |                                                                                     |     |
|-----------|-----------------------------------------|-------------------------------------------------------------------------------------|-----|
| NTDB id   | 1250 GC085 RS13065 WP 027219989.1       | AHAHLGCEGGCKTIAVLGTGIDCIYPRRHLKLAEEQITENGLLSEFPLKSPPIAGHFPLRNRIISGLSLCILVIEAAIK     | 233 |
| NTDB id   | 599 KW2 RS05940 WP 021037268.1          | TASHLSAIKTCTPTIIVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPVKYHFPERNRIIAGLSRGVVVEAKLR     | 226 |
| NTDB id   | 525 SMSK321 RS06295 WP 000705298.1      | TAAHMAALQNNGGKTIIVIGTGDLVFYPKANRLQDYISNDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR   | 227 |
| NTDB id   | 267 KZH43 RS05590 WP 000705306.1        | TAAHMAALQNNGGKTIIVIGTGDLVFYPKANRLQDYGINDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR   | 227 |
| NTDB id   | 226 SPD RS05990 WP 000705306.1          | TAAHMAALQNNGGKTIIVIGTGDLVFYPKANRLQDYIGNDHVLSEYGPGEQPLKFHYFPARNRIIAGLCRGVIVAEAKMR    | 227 |
| NTDB id   | 192 SPR RS05715 WP 000705306.1          | TAAHMAALQNNGGKTIIVIGTGDLVFYPKANRLQDYGINDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR   | 227 |
| NTDB id   | 157 SP RS06205 WP 000705306.1           | TAAHMAALQNNGGKTIIVIGTGDLVFYPKANRLQDYGINDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR   | 227 |
| NTDB id   | 497 SM12261 RS05565 WP 000705318.1      | TAAHMAALQNNGGKTIIVIGTGDLVFYPKANRLQDYGINDHLVLSEYGPGEQPLKFHFFPARNRIIAGLCRGVIVAEAKMR   | 227 |
| NTDB id   | 978856 MGAS37856 RS04515 WP 010922314.1 | TSAHLAGCLNKGQTIIIGTGDRFYPKENRELQTLFGKNHNLVTTEYGPGEALS YHFPERNRIIAGLSRCILVVEAKNR     | 225 |
| NTDB id   | 407 SMU RS04605 WP 002262865.1          | TAAHLASLKSGGATIAVIGTGDLVDHPKENRRRLQDYIAKHNL LLYSEYEQS QPLKYHFPERNRIIAGLSQGVMVAEAKIR | 225 |
| consensus |                                         | * * * * *                                                                           |     |

