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|                                              |            |                                                                               |    |
|----------------------------------------------|------------|-------------------------------------------------------------------------------|----|
| NTDB id 602 KW2 RS03060 WP 011834647.1       | .....MGYL  | VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGTPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG      | 75 |
| NTDB id 611 V4T04 RS07970 WP 003129593.1     | .....MGYL  | VPTVIEQSSRGERAYDIYSRLLKDRIIMLTGTPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG      | 75 |
| NTDB id 282 KZH43 RS03215 WP 000613477.1     | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 246 SPD RS03495 WP 000613477.1       | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 244 SPR RS03300 WP 000613477.1       | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 242 SP RS03655 WP 000613477.1        | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDSTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 121120 DK42 RS08170 WP 000613483.1   | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 330 STU RS11365 WP 002949732.1       | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 298 STER RS01925 WP 002949732.1      | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1 | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 445 SPYM3 RS01720 WP 002985850.1     | .....      | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSVIAQLLFLDAQDNTKDIYLYVNTPGGSVSAG    | 72 |
| NTDB id 376 SMU RS07595 WP 255262720.1       | MELKEKYS   | MIPVVIEQTSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYINSPGGSVITS    | 80 |
| NTDB id 1223 Cj0192c YP 002343650.1          | .....MFIP  | TVIEQSSRGRERSYDIYSRLLKDRIIMLTGTPVEDNMANSIIAQLLFLDAQDNTKDIYLYINSPGGSVITS       | 73 |
| NTDB id 86 BSU 34540 NP 391334.1             | .....MNLIP | TVIEQTNRGERAYDIYSRLLKDRIIMLTGSAIDNANSIVSQLLFLAEDPEKEISLYINSPGGSLTAG           | 74 |
| consensus                                    |            | ***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!! |    |

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|                                              |            |                                                                               |                                  |                         |                     |     |
|----------------------------------------------|------------|-------------------------------------------------------------------------------|----------------------------------|-------------------------|---------------------|-----|
| NTDB id 602 KW2 RS03060 WP 011834647.1       | LAIVDTMNF  | IKSDVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 155 |
| NTDB id 611 V4T04 RS07970 WP 003129593.1     | LAIVDTMNF  | IKSDVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 155 |
| NTDB id 282 KZH43 RS03215 WP 000613477.1     | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 152 |
| NTDB id 246 SPD RS03495 WP 000613477.1       | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 152 |
| NTDB id 244 SPR RS03300 WP 000613477.1       | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 152 |
| NTDB id 242 SP RS03655 WP 000613477.1        | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 152 |
| NTDB id 121120 DK42 RS08170 WP 000613483.1   | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNTLEK | 152 |
| NTDB id 330 STU RS11365 WP 002949732.1       | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNNLEQ | 152 |
| NTDB id 298 STER RS01925 WP 002949732.1      | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRNNLEQ | 152 |
| NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1 | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRHRLK  | 152 |
| NTDB id 445 SPYM3 RS01720 WP 002985850.1     | LAIVDTMNF  | IKADVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRHRLK  | 152 |
| NTDB id 376 SMU RS07595 WP 255262720.1       | LAIVDTMNF  | IKSDVQTI                                                                      | VMGMAASMGTYIASSCAKGRF            | MFLPNAEYMIHQPMGGTGGGTQQ | TDMAIAAEHLLKTRKKLEK | 160 |
| NTDB id 1223 Cj0192c YP 002343650.1          | FSIYDTMNY  | IKPDVCTICIGQAASMGAFLLSCGABGKRF                                                | ALPNSRIMIHQPLGCGARG..QATDIEIQAKE | TLRLKTLIND              |                     | 151 |
| NTDB id 86 BSU 34540 NP 391334.1             | MAIYDTMQFI | PKVSTICIGMAASMGAFLLAAGEGKGRY                                                  | ALPNSEVMIHQPLGCAQC..QATEIEIAAKRI | LLLRDKLNK               |                     | 152 |
| consensus                                    |            | ***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!! |                                  |                         |                     |     |

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|                                              |              |                                                                               |                           |                        |    |     |
|----------------------------------------------|--------------|-------------------------------------------------------------------------------|---------------------------|------------------------|----|-----|
| NTDB id 602 KW2 RS03060 WP 011834647.1       | ILADNSNRSLEQ | IKHDAERD                                                                      | HWM                       | DAKETLEYGFIDEIMENNSL   | K. | 199 |
| NTDB id 611 V4T04 RS07970 WP 003129593.1     | ILADNSNRSLEQ | IKHDAERD                                                                      | HWM                       | DAKETLEYGFIDEIMENNSL   | K. | 199 |
| NTDB id 282 KZH43 RS03215 WP 000613477.1     | ILAENSGQSMEK | VHDAERD                                                                       | NWMSAQETLEYGFIDEIMANNSLN. |                        |    | 196 |
| NTDB id 246 SPD RS03495 WP 000613477.1       | ILAENSGQSMEK | VHDAERD                                                                       | NWMSAQETLEYGFIDEIMANNSLN. |                        |    | 196 |
| NTDB id 244 SPR RS03300 WP 000613477.1       | ILAENSGQSMEK | VHDAERD                                                                       | NWMSAQETLEYGFIDEIMANNSLN. |                        |    | 196 |
| NTDB id 242 SP RS03655 WP 000613477.1        | ILAENSGQSMEK | VHDAERD                                                                       | NWMSAQETLEYGFIDEIMANNSLN. |                        |    | 196 |
| NTDB id 121120 DK42 RS08170 WP 000613483.1   | ILADNSGQSIEK | VHDAERD                                                                       | RWMSAQETLDYGFIDAIME       | NNNLQ.                 |    | 196 |
| NTDB id 330 STU RS11365 WP 002949732.1       | ILADNSGQPIEK | VHDAERD                                                                       | NWMSAQETLEYGFIDEIMTNNQLK. |                        |    | 196 |
| NTDB id 298 STER RS01925 WP 002949732.1      | ILADNSGQPIEK | VHDAERD                                                                       | NWMSAQETLEYGFIDEIMTNNQLK. |                        |    | 196 |
| NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1 | ILAQNAKGTIK  | QIKHDAERD                                                                     | YWMSABETLAYGFIDEIMENNELK. |                        |    | 196 |
| NTDB id 445 SPYM3 RS01720 WP 002985850.1     | ILAQNAKGTIK  | QIKHDAERD                                                                     | YWMSABETLAYGFIDEIMENNELK. |                        |    | 196 |
| NTDB id 376 SMU RS07595 WP 255262720.1       | ILSDNSGKTIK  | QIKHDAERD                                                                     | YWM                       | DAKETLKYGFIDEIMENNELK. |    | 204 |
| NTDB id 1223 Cj0192c YP 002343650.1          | ILAKNTIKQK   | VAKIAKDT                                                                      | ERDFMSAQEAK               | EYGLIDKYLEKSFK..       |    | 194 |
| NTDB id 86 BSU 34540 NP 391334.1             | VLAERTIGQPLE | VIERD                                                                         | TRDRDNFKSAFE              | ALEYGLIDKTLTHTEDK      |    | 197 |
| consensus                                    |              | ***!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!!**!! |                           |                        |    |     |

 non conserved  
 similar  
  $\geq 50\%$  conserved