```
logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 458 SSUD9 RS00355 WP 002935296.1      .....MNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE    74
NTDB id 455 SSU RS00330 WP 012774888.1        .....MNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE    74
NTDB id 465 SSU05 0053 ABP89025.1             MEVWFMNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE    79
NTDB id 451 SPYM18 RS00325 WP 002986681.1     ......MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPK    74
NTDB id 443 SPYM3 RS00325 WP 011054099.1      ......MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPK    74
NTDB id 45 SMU RS00375 WP 002263400.1         ......MLKDFGKKIKSLRLEKGLTKEAVCLDESQLSTRQLTRIESGQSTPTLNKAVYIAGRLGVTLGYLTDGENVELPS    74
NTDB id 1159285 QOR61 RS00430 WP 000912098.1  ......MLKHFGSKVRNLRVTRNITREDFCGDETELSVRQLARIESGQSIPNLTKAHYIAKQLNVKLDILTGGESLELPK    74
NTDB id 555 STRINF RS01865 WP 174221231.1     ..................MREEKEISREEFCGDETELSVRQLARIELNQSIPNLSKASFIANRLGVKLGTLTDGDSLELPK    63
consensus                                              * ** *** *!  * ***! *! !!**!!*!!! !!! **! !***!* *!! *!** *  !* ** **!!

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 458 SSUD9 RS00355 WP 002935296.1      RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIVVDTLCSLFDVLDTDSQEYGKEILDDYLHQSYHRS   154
NTDB id 455 SSU RS00330 WP 012774888.1        RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDTLESGTAGFGKEILEDYFEQIFRKR   154
NTDB id 465 SSU05 0053 ABP89025.1             RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDTLESGTAGFGKEILEDYFEQIFRKR   159
NTDB id 451 SPYM18 RS00325 WP 002986681.1     RYKELKYLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKIIIDCLQATLDTLLSENTNFGIDLLQEYFNQIKTKV   154
NTDB id 443 SPYM3 RS00325 WP 011054099.1      RYKELKYLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKVAVDIIQAKFEVYQTGDINFGYSILKEFLPQLKRKS   154
NTDB id 45 SMU RS00375 WP 002263400.1         RYKELKYLLLRTPTYGDQQRLAEKETYFDEIFSQFYDDLPEEEQLIIDGLQSKLDIHFSDNIDFGVGILNDYFDQILRKT   154
NTDB id 1159285 QOR61 RS00430 WP 000912098.1  RYKELKYKLLRTPTYGDANRLAVREAYFDEIYEVFYEELPEDERLIIDCMQSKLDVHFSVNDNFGITILHDYFDQIKKKK   154
NTDB id 555 STRINF RS01865 WP 174221231.1     RYKELKYLLLRTPTYGDQVRLDRKNDYFDEIAEVFYDVIPEEERLIIDCLQSKFDVHFSEDVNFGEGILNDYFGQVNRKK   143
consensus                                     !!**!!* *!!!!!!*** **   **   **!!****!***!!*!****! ******   *     *!   *!  ***  !*  **

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 458 SSUD9 RS00355 WP 002935296.1      KLSINDLMILRLFIEHCQLEDLSVGTSNYALFTDLIEKLPQSIYDVHSESLFIVRDLFLAIVRILFSKELYNHIPVYIEK   234
NTDB id 455 SSU RS00330 WP 012774888.1        KYELNDLLIVRLHLEYVRLSS..CDSEIFRQFLKIIEHLHEQINIINSNDLFVLRDTLLSCVNILGSKKYYEPIPKIFDS   232
NTDB id 465 SSU05 0053 ABP89025.1             KYELNDLLIVRLHLEYVRLSS..CDSEIFRQFLKIIEHLHEQINIINSNDLFVLRDTLLSCVNILGSKKYYEPIPKIFDS   237
NTDB id 451 SPYM18 RS00325 WP 002986681.1     RFRQNDLILLELYLAYLDIEGMDGQYSDKIFYDSLLDNLSEQFEQFELDELFIVNKIIIDISSLSLKNNRLDNLEKAIEM   234
NTDB id 443 SPYM3 RS00325 WP 011054099.1      IYNLNELLLIDLYLIILVVSHFSDDIFDVQFYEEITESMLKQHNNLSLEDLFLLNNILLSCADTYIRLKMFGHLKETLQL   234
NTDB id 45 SMU RS00375 WP 002263400.1         NYQVNDLILIDLYFSCLTVSGLDSAIFDSRKYNQLLETLLKQVDCLPLEDLFVLNNVLLNNFGLLLELKKYDFVKQLIAV   234
NTDB id 1159285 QOR61 RS00430 WP 000912098.1  EYTTNDFVMIDLYLLCFSINYGMKSLYSLENYHFIMSKLLEQDNLLP.EDNFQLNNVLLNHVELAFQFKQKKYVQQIIHR   233
NTDB id 555 STRINF RS01865 WP 174221231.1     VFTINDLILIDLYFACLSSAKKFEGIYSLDFYDDLMKRLVNQKHVSP.ETDLILNNVLLNNIDLAFQFKREYYIERVITI   222
consensus                                      * *!******!**  * *            *  *** *  *   *  ******* ***  * *    * *  *  **

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 458 SSUD9 RS00355 WP 002935296.1      IENIMELSQDFQKKPILNLVKWKYELKVQHNHEIAERYYNEAITFASLLNQFHLKEKLQMEWEKDTQSLKR   305
NTDB id 455 SSU RS00330 WP 012774888.1        VDKIIQSTQDFQKKPIVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ....   299
NTDB id 465 SSU05 0053 ABP89025.1             VDKIIQSTQDFQKKPIVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ....   304
NTDB id 451 SPYM18 RS00325 WP 002986681.1     SQKIMAKIQDWNRMPILKLIEWKYFLIKQKDIIKAEQSFMKACLFAQMTADQYLENKLIQEWEKDVKSY..   303
NTDB id 443 SPYM3 RS00325 WP 011054099.1      SHFIMSTIQDFQKMPMYCMYEWKLSIFYLKDINRARNYFEQSILFTQMTGDTYLVQKLRGEWNKDIHYI..   303
NTDB id 45 SMU RS00375 WP 002263400.1         SNKIMDRTHDFQKKPIVNLLTWKHHLFVEKDYAEAKKSYDAAILFAQLTENINLRENLEKEWQKDSQNGT.   304
NTDB id 1159285 QOR61 RS00430 WP 000912098.1  SNAIMTEIHDFQKRPILSLIEWKYLLIIEKDRTKAETCFKQSILFAELIGDLYLKGKLIEEWNKDLT....   300
NTDB id 555 STRINF RS01865 WP 174221231.1     SEKIMTEIHDFQRRPILSLVEWKYYLKLKHDFALAEQSFTNATLFARLVGDTYLENKLKEEWQLDIDAVE.   292
consensus                                     * *!*    *!****!** ** !!* * * **   !*  *  ***!* **    ! ***  *! *!
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X non conserved
X similar
X $\geq$ 50% conserved