```
logo
NTDB id 455 SSU RS00330 WP 012774888.1        .....MNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE   74
NTDB id 465 SSU05 0053 ABP89025.1             MEVWFMNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE   79
NTDB id 45 SMU RS00375 WP 002263400.1         ......MLKDFGKKIKSLRLEKGLTKEAVCLDESQLSTRQLTRIESGQSTPTLNKAVYIAGRLGVTLGYLTDGENVELPS   74
NTDB id 555 STRINF RS01865 WP 174221231.1     ..................MREEKEISREEFCGDETELSVRQLARIELNQSIPNLSKASFIANRLGVKLGTLTDGDSLELPK   63
NTDB id 315505 D5R92 RS05905 WP 016355741.1   .......MTDFGLKIKALREEQNKTREEICGDESELSVRQLARIEQGQSIPSLAKAVYISNELGVSLSSITEDGEFDLPK   73
NTDB id 451 SPYM18 RS00325 WP 002986681.1     ......MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPK   74
NTDB id 443 SPYM3 RS00325 WP 011054099.1      ......MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPK   74
consensus                                       * *** *** *!*** ***!**!*!!**!!*!!!*!!! **!*!***!***!* *!***** ***** **!!*

logo
NTDB id 455 SSU RS00330 WP 012774888.1        RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDTLESGTAGFGKEILEDYFEQIFRKR   154
NTDB id 465 SSU05 0053 ABP89025.1             RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDTLESGTAGFGKEILEDYFEQIFRKR   159
NTDB id 45 SMU RS00375 WP 002263400.1         RYKELKYLLLRTPTYGDQQRLAEKETYFDEIFSQFYDDLPEEEQLIIDGLQSKLDIHFSDNIDFGVGILNDYFDQILRKT   154
NTDB id 555 STRINF RS01865 WP 174221231.1     RYKELKYLLLRTPTYGDQVRLDRKNDYFDEIAEVFYDVIPEEERLIIDCLQSKFDVHFSEDVNFGEGILNDYFGQVNRKK   143
NTDB id 315505 D5R92 RS05905 WP 016355741.1   RYKELKHLILRTPTYKDKEKVRIREKQFDEIFINYYDNLPEEEKLVVDGLQASLDVALSKNINFGSDILNDYFEQIKVKS   153
NTDB id 451 SPYM18 RS00325 WP 002986681.1     RYKELKYLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKIIIDCLQATLDTLLSENTNFGIDLLQEYFNQIKTKV   154
NTDB id 443 SPYM3 RS00325 WP 011054099.1      RYKELKYLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKVAVDIIQAKFEVYQTGDINFGYSILKEFLPQLKRKS   154
consensus                                     !!**!!***!!!!!!*** **  **  **!!****!! *!!!!****!**!***** *  **!! **!*****!* *!

logo
NTDB id 455 SSU RS00330 WP 012774888.1        KYELNDLLIVRLHLEYVRLSSCDSEIFRQ..FLKIIEHLHEQINIINSNDLFVLRDTLLSCVNILGSKKYYEPIPKIFDS   232
NTDB id 465 SSU05 0053 ABP89025.1             KYELNDLLIVRLHLEYVRLSSCDSEIFRQ..FLKIIEHLHEQINIINSNDLFVLRDTLLSCVNILGSKKYYEPIPKIFDS   237
NTDB id 45 SMU RS00375 WP 002263400.1         NYQVNDLILIDLYFSCLTVSGLDSAIFDSRKYNQLLETLLKQVDCLPLEDLFVLNNVLLNNFGLLLELKKYDFVKQLIAV   234
NTDB id 555 STRINF RS01865 WP 174221231.1     VFTINDLILIDLYFACLSSAKKFEGIYSLDFYDDLMKRLVNQKHVSPETD.LILNNVLLNNIDLAFQFKREYYIERVITI   222
NTDB id 315505 D5R92 RS05905 WP 016355741.1   CFTRNDLIIIDLYLICVRTSKFSDAIYDAAVYKSLLKKTIAQIDCAEIDDFYVLNQVLITFYTISIQLDRPKELELIISN   233
NTDB id 451 SPYM18 RS00325 WP 002986681.1     RFRQNDLILLELYLAYLDIEGMDGQYSDKIFYDSLLDNLSEQFEQFELDELFIVNKIIIDISSLSLKNNRLDNLEKAIEM   234
NTDB id 443 SPYM3 RS00325 WP 011054099.1      IYNLNELLLIDLYLIILVVSHFSDDIFDVQFYEEITESMLKQHNNLSLEDLFLLNNILLSCADTYIRLKMFGHLKETLQL   234
consensus                                      * *!*!****!**  * **  *  ***   *  *** ** !*  * ************   * *  **** * *** *

logo
NTDB id 455 SSU RS00330 WP 012774888.1        VDKIIQSTQDFQKKPIVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ...   299
NTDB id 465 SSU05 0053 ABP89025.1             VDKIIQSTQDFQKKPIVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ...   304
NTDB id 45 SMU RS00375 WP 002263400.1         SNKIMDRTHDFQKKPIVNLLTWKHHLFVEKDYAEAKKSYDAAILFAQLTENINLRENLEKEWQKDSQNGT   304
NTDB id 555 STRINF RS01865 WP 174221231.1     SEKIMTEIHDFQRRPILSLVEWKYYLKLKHDFALAEQSFTNATLFARLVGDTYLENKLKEEWQLDIDAVE   292
NTDB id 315505 D5R92 RS05905 WP 016355741.1   CNRIMSVVNDFYRMPILYVMEWKYSIKYLDDLKKATSFYHKAKLFAQMTGDSDLANKIEKEWAMDCQ...   300
NTDB id 451 SPYM18 RS00325 WP 002986681.1     SQKIMAKIQDWNRMPILKLIEWKYFLIKQKDIIKAEQSFMKACLFAQMTADQYLENKLIQEWEKDVKSY.   303
NTDB id 443 SPYM3 RS00325 WP 011054099.1      SHFIMSTIQDFQKMPMYCMYEWKLSIFYLKDINRARNYFEQSILFTQMTGDTYLVQKLRGEWNKDIHYI.   303
consensus                                     * *!*  **!****!** ***!!* *** *!   !*  *  **!!*****  !***** *! *! *
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X non conserved

X similar

X $\geq$ 50% conserved