```
logo
NTDB id 458 SSUD9 RS00355 WP 002935296.1   .....MNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPERYSKL   79
NTDB id 455 SSU RS00330 WP 012774888.1     .....MNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPERYSKL   79
NTDB id 465 SSU05 0053 ABP89025.1          MEVWFMNDKEFGQRVRQLRESASMTREQFCDDELELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPERYSKL   84
NTDB id 451 SPYM18 RS00325 WP 002986681.1  ......MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPKRYKEL   79
NTDB id 443 SPYM3 RS00325 WP 011054099.1   ......MLEHFGGKVKVLRLEKRISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPKRYKEL   79
NTDB id 45 SMU RS00375 WP 002263400.1      ......MLKDFGKKIKSLRLEKGLTKEAVCLDESQLSTRQLTRIESGQSTPTLNKAVYIAGRLGVTLGYLTDGENVELPSRYKEL   79
NTDB id 20329 SMA 0105 CCF01396.1          .......MEKFGIKVRALREEKGISREEFCGDETELSVRQLARIEKGQSVPTLNKVGYIAKVLDVTIGELVDGKNLELPTRYKEL   78
NTDB id 555 STRINF RS01865 WP 174221231.1  ..................MREEKEISREEFCGDETELSVRQLARIELNQSIPNLSKASFIANRLGVKLGTLTDGDSLELPKRYKEL   68
consensus                                                   ** *** *!*** ***! *! !!**!!*!!! !!! **! !***!* *!! *!** ** ! *** **!! !!**!
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logo
NTDB id 458 SSUD9 RS00355 WP 002935296.1   KFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIVVDTLCSLFDVLDTDSQEYGKEILDDYLHQSYHRSKLSINDLMIL   164
NTDB id 455 SSU RS00330 WP 012774888.1     KFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDTLESGTAGFGKEILEDYFEQIFRKRKYELNDLLIV   164
NTDB id 465 SSU05 0053 ABP89025.1          KFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDTLESGTAGFGKEILEDYFEQIFRKRKYELNDLLIV   169
NTDB id 451 SPYM18 RS00325 WP 002986681.1  KYLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKIIIDCLQATLDTLLSENTNFGIDLLQEYFNQIKTKVRFRQNDLILL   164
NTDB id 443 SPYM3 RS00325 WP 011054099.1   KYLILRTPTYMDDGKLQVREEQFDEIFEDYYDKLPEEEKVAVDIIQAKFEVYQTGDINFGYSILKEFLPQLKRKSIYNLNELLLI   164
NTDB id 45 SMU RS00375 WP 002263400.1      KYLLLRTPTYGDQQRLAEKETYFDEIFSQFYDDLPEEEQLIIDGLQSKLDIHFSDNIDFGVGILNDYFDQILRKTNYQVNDLILI   164
NTDB id 20329 SMA 0105 CCF01396.1          KYLLLRTPTYGDEKRLQRQTSYFDEIAERYYEVIPEEERLVIDCLQSKIDVHFSDDVNFGEGILNDYFDQVRRKKKFQINDLILI   163
NTDB id 555 STRINF RS01865 WP 174221231.1  KYLLLRTPTYGDQVRLDRKNDYFDEIAEVFYDVIPEEERLIIDCLQSKFDVHFSEDVNFGEGILNDYFGQVNRKKVFTINDLILI   153
consensus                                  !***!!!!!!*** ** ***  **!!****!* *!!!!****! *******  **   *!  *! *** !* ** ** *!*!***
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logo
NTDB id 458 SSUD9 RS00355 WP 002935296.1   RLFIEHCQLEDLSVGTSNYALFTDLIEKLPQSIYDVHSESLFIVRDLFLAIVRILFSKELYNHIPVYIEKIENIMELSQDFQKKP   249
NTDB id 455 SSU RS00330 WP 012774888.1     RLHLEYVRLSS..CDSEIFRQFLKIIEHLHEQINIINSNDLFVLRDTLLSCVNILGSKKYYEPIPKIFDSVDKIIQSTQDFQKKP   247
NTDB id 465 SSU05 0053 ABP89025.1          RLHLEYVRLSS..CDSEIFRQFLKIIEHLHEQINIINSNDLFVLRDTLLSCVNILGSKKYYEPIPKIFDSVDKIIQSTQDFQKKP   252
NTDB id 451 SPYM18 RS00325 WP 002986681.1  ELYLAYLDIEGMDGQYSDKIFYDSLLDNLSEQFEQFELDELFIVNKIIIDISSLSLKNNRLDNLEKAIEMSQKIMAKIQDWNRMP   249
NTDB id 443 SPYM3 RS00325 WP 011054099.1   DLYLIILVVSHFSDDIFDVQFYEEITESMLKQHNNLSLEDLFLLNNILLSCADTYIRLKMFGHLKETLQLSHFIMSTIQDFQKMP   249
NTDB id 45 SMU RS00375 WP 002263400.1      DLYFSCLTVSGLDSAIFDSRKYNQLLETLLKQVDCLPLEDLFVLNNVLLNNFGLLLELKKYDFVKQLIAVSNKIMDRTHDFQKKP   249
NTDB id 20329 SMA 0105 CCF01396.1          DLYFACLASAKSFEGIYSLDLYDELMECLLNQENLSPET.SLILNNVLLNNVDLVLRFHRESFIKRIIIKSDTIMASVHDFQRRP   247
NTDB id 555 STRINF RS01865 WP 174221231.1  DLYFACLSSAKKFEGIYSLDFYDDLMKRLVNQKHVSPET.DLILNNVLLNNIDLAFQFKREYYIERVITISEKIMTEIHDFQRRP   237
consensus                                  *!**  * *            *  *** *  *   *  ****** ***  * **   * *  * ***  ***!*   *!****!
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logo
NTDB id 458 SSUD9 RS00355 WP 002935296.1   ILNLVKWKYELKVQHNHEIAERYYNEAITFASLLNQFHLKEKLQMEWEKDTQSLKR   305
NTDB id 455 SSU RS00330 WP 012774888.1     IVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ....   299
NTDB id 465 SSU05 0053 ABP89025.1          IVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ....   304
NTDB id 451 SPYM18 RS00325 WP 002986681.1  ILKLIEWKYFLIKQKDIIKAEQSFMKACLFAQMTADQYLENKLIQEWEKDVKSY..   303
NTDB id 443 SPYM3 RS00325 WP 011054099.1   MYCMYEWKLSIFYLKDINRARNYFEQSILFTQMTGDTYLVQKLRGEWNKDIHYI..   303
NTDB id 45 SMU RS00375 WP 002263400.1      IVNLLTWKHHLFVEKDYAEAKKSYDAAILFAQLTENINLRENLEKEWQKDSQNGT.   304
NTDB id 20329 SMA 0105 CCF01396.1          VLSLVEWKYYLQFKKDFLAAQKSYSNAILFANLIGDTYLKSKLVEEWNNDTT....   299
NTDB id 555 STRINF RS01865 WP 174221231.1  ILSLVEWKYYLKLKHDFALAEQSFTNATLFARLVGDTYLENKLKEEWQLDIDAVE.   292
consensus                                  ** ** !!* * * **   !** *  ***!* **    ! ***  *!  !
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X non conserved
X similar
X $\geq$50% conserved