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NTDB id 458 SSUD9 RS00355 WP 002935296.1	MNDKEFGQRVRQLRESASMTREQFCDDLELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE	74
NTDB id 201330 BKM67 RS00365 WP 105184195.1	MNDKEFGQRVRQLRETASLTREQFCGDELELSVRQLTRIEAGTSKPTFSKIQYIATRLGMGLYELM.PDYVSLPE	74
NTDB id 455 SSU RS00330 WP 012774888.1	MNDKEFGQRVRQLRESASMTREQFCDDLELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.PDYVSLPE	74
NTDB id 465 SSU05 0053 ABP89025.1	MEVWFMMNDKEFGQRVRQLRESASMTREQFCDDLELSVRQLTRIEAGASKPTFSKIQYIATRLGMGLYELM.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	MLKDFGKKIKSLRLEKGLTKEAVCLDESQLSTRQLTRIESGQSTPTLNKAVYIAGRLGVTGLGYLTDGENVELPS	74
NTDB id 555 STRINF RS01865 WP 174221231.1	MREEKEISREEFCGDELELSVRQLARIELNQSIPNLSKASFIANRLGVKLGTLTDGDSLLELPK	63
consensus	***** **!* **** *! !! *!!!!!!*!! * ! !* *!* *!! *!!* * ! * * *! !	

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NTDB id 458 SSUD9 RS00355 WP 002935296.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIIVDTLCSLFDVLDTDSQEYGKEILDYDLHQSYHRS	154
NTDB id 201330 BKM67 RS00365 WP 105184195.1	RYSKLKFDVLRTPTYENEELMEKRRADMMTEIYDDYYDDLPEEEKIAIDAIQSIIDVFETKTAEFQGDILEDYFEQIQRKP	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	RYKELKYLILRTPTYMDGKILQVREEQFDEIFEDYYDKLPPEEKIIDCLQATLDTLSENTNFGIDLLIQEYFNQIKTKV	154
NTDB id 443 SPYM3 RS00325 WP 011054099.1	RYKELKYLILRTPTYMDGKILQVREEQFDEIFEDYYDKLPPEEKIIVAVDIIQAKFEVYQTDGINFGYSILKEFLPQLKRKS	154
NTDB id 45 SMU RS00375 WP 002263400.1	RYKELKYLILRTPTYGDQQRLLAEKETYFDEIFSQFYDDLPEEEQLIIDGLQSKLDIHFSNDNIDFGVGLNDYFDQILRKT	154
NTDB id 555 STRINF RS01865 WP 174221231.1	RYKELKYLILRTPTYGDQVRLDRKNDYFDEIAEVFYDVIPPEERLIIDCLQSKFVDVHFSEDVNFGEGLNDYFGQVNRKK	143
consensus	!! !!* *!!!!!!* * **** *!*****!*****!***** *! ***** * *! *!! *** !* **	

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NTDB id 458 SSUD9 RS00355 WP 002935296.1	KLSINDLMIIRLFIEHCQLEDLSVGTSNYALFTDLIEKLQSTIYDVHSESLFIVRDLFLAIVRILFSKELYNHITPVYIEK	234
NTDB id 201330 BKM67 RS00365 WP 105184195.1	QFSANDLLIIRLYLINLRMEI..KQSSDFQHFLLEVEKFPSQVELVESGDLFILRDVMLTSIGILGEHEEYGKIPPLFDA	232
NTDB id 455 SSU RS00330 WP 012774888.1	KYELNDLLIVRLHLEYVRLSS..CDSEIFRQFLKIIIEHLHEQINIINSNDLFVLRDRTLSCVNILGSKKYYEPIPKIFDS	232
NTDB id 465 SSU05 0053 ABP89025.1	KYELNDLLIVRLHLEYVRLSS..CDSEIFRQFLKIIIEHLHEQINIINSNDLFVLRDRTLSCVNILGSKKYYEPIPKIFDS	237
NTDB id 451 SPYM18 RS00325 WP 002986681.1	RFRQNDLILLELYLAYLDIEGMDGQYSDFYDSLLDNLSEQFEQFELDELFIIVNKITIIDISSLSLKNRNLNLEKATIE	234
NTDB id 443 SPYM3 RS00325 WP 011054099.1	IYNLNEILLIDLYLILLVVSHFSDDIFDVQFYEEITESMLKQHNNISLEDLFLNNILLSCADTYIRLKMFGHLKETLQL	234
NTDB id 45 SMU RS00375 WP 002263400.1	NYQVNDLILIDLYFSCLTVSGLDSAIFDSRKYNQLLETLLKQVDCLPLEDLFVLNNVLLNNGFLLLELKKYDFVKQLIAV	234
NTDB id 555 STRINF RS01865 WP 174221231.1	VETINDLILIDLYFACLSSAKKFEGIYSLDFYDDLMKRLVNNQKHVSPETD.LILNNVLLNNTIDLAFQFKREYYIERTVITI	222
consensus	* *!***** !** *	

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NTDB id 458 SSUD9 RS00355 WP 002935296.1	IENTIMELSQDFQKKPILNLVKKWYELKVQHNEHIAERYNEAITFASLLNQFHLKEKLQMEWEKDTQSLKR	305
NTDB id 201330 BKM67 RS00365 WP 105184195.1	LDRIMVSTQDFQKKPILNLVKKWYELKVQNNDEEARRFYEEAVMFAKLIGDTHLVEKLESSWREEK....	299
NTDB id 455 SSU RS00330 WP 012774888.1	VDKIIQSTQDFQKKPIVSVLKWKYALFVQDKDRDEAEKHYLDVLFVAKLIENRELEQKIEEDWRVDNQ....	299
NTDB id 465 SSU05 0053 ABP89025.1	VDKIIQSTQDFQKKPIVSVLKWKYALFVQDKDRDEAEKHYLDVLFVAKLIENRELEQKIEEDWRVDNQ....	304
NTDB id 451 SPYM18 RS00325 WP 002986681.1	SQKIMAKIQDWNRMPIKLKIEWKYFLIKQKDIKAEQSFMAKCLFAQMTADQYLENKLIQEWKDVKSY..	303
NTDB id 443 SPYM3 RS00325 WP 011054099.1	SHFIMSTIQDFQKKMPMYCMYEWKLSIFYLKDINRARNYFEQSILFTQMTGDTYLVQKLGRGEWNKDIHYI..	303
NTDB id 45 SMU RS00375 WP 002263400.1	SNKIMDRTHDFQKKPIVNLITWKHHLFVEKDYAEAKSYDAAILFAQLTENINLRENLEKEWQKDSQNGT.	304
NTDB id 555 STRINF RS01865 WP 174221231.1	SEKIMTEIHDFQRRPILSLVEWKYVYKIKHDFALAEQSFNTATLFARLVGDITYLENKLEWQLDIDAVE.	292
consensus	*!!* **!*****!** ** !!* **** ** !** * ****!* ** !*** **!!* *	

 non conserved
 similar
 $\geq 50\%$ conserved