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NTDB id 458 SSUD9 RS00355 WP 002935296.1	MEVWFMNDKEEFGRVRLRESASMTREQFCDDDELELSVRQLTRIBAGASKPTFSKIQYIATRLCMGLYEIM.PDYVSLPE	74
NTDB id 455 SSU RS00330 WP 012774888.1	MNDKEFGQRVRQLRESASMTREQFCDDDELELSVRQLTRIBAGASKPTFSKIQYIATRLCMGLYEIM.PDYVSLPE	74
NTDB id 465 SSU05 0053 ABP89025.1	MEVWFMNDKEFGQRVRQLRESASMTREQFCDDDELELSVRQLTRIBAGASKPTFSKIQYIATRLCMGLYEIM.PDYVSLPE	79
NTDB id 451 SPYM18 RS00325 WP 002986681.1	MLEHFGGKVKVLRLEKRLISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPK	74
NTDB id 443 SPYM3 RS00325 WP 011054099.1	MLEHFGGKVKVLRLEKRLISREDLCGDESELSVRQLARIELGQSIPSLSKVIFIAKALNVSVGYLTDGADLELPK	74
NTDB id 45 SMU RS00375 WP 002263400.1	MLKDFGKKIKSLRLEKGLTKBAVCLDESQLSRQLTRIBSGQSTPTLNKAVYIAGRLGVTILGYLTDGENVELPS	74
NTDB id 1158712 QOR56 RS00440 WP 000912098.1	MLKHFGSKVRNLRVTRNITREDFCGDETELSVRQLARIBSGQSIPNLTAKHYIAKQLNVKLDILTGGSELELPK	74
NTDB id 555 STRINF RS01865 WP 174221231.1	MREEKELSRBEFCGDETELSVRQLARIELNQSIPNLSKASFIANRLGVKLTGLTDGDSLELPK	63
consensus	* ** *** *! * ***! *! !!*!!*!!!!!! *! !***!* *!! *!* * *! * ** *!!	

logo

NTDB id 458 SSUD9 RS00355 WP 002935296.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIVVDTLCSLFDVLDSDQEYCKEILDDYHLQSYHRS	154
NTDB id 455 SSU RS00330 WP 012774888.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIADAIQSRIDTLES GTAGFCKEILEDYFEQIFRKR	154
NTDB id 465 SSU05 0053 ABP89025.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIADAIQSRIDTLES GTAGFCKEILEDYFEQIFRKR	159
NTDB id 451 SPYM18 RS00325 WP 002986681.1	RYKELKYLILRTPTYMDGKLQVRREEQFDEIFEDYYDKLPEEEKIIDCLQATLDTLLSENTNFGIDLQEYFNQIKTKV	154
NTDB id 443 SPYM3 RS00325 WP 011054099.1	RYKELKYLILRTPTYMDGKLQVRREEQFDEIFEDYYDKLPEEEKVAVDIIQAKFEVYQIGDINFCYSILKEFLPQIKRKS	154
NTDB id 45 SMU RS00375 WP 002263400.1	RYKELKYLILRTPTYGDQQRRLAEKBTYFDEIFSQFYDDLPEEEQLIIDGLQSKLDIHFSDNIDFCVGILNDYFDQILRKT	154
NTDB id 1158712 QOR56 RS00440 WP 000912098.1	RYKELKYKLLRTPTYGDANRLAVREAYFDEIYEVFYEELPEDERLIIDCMQSKLDVHFSVNDNFGITILHDYFDQIKKKK	154
NTDB id 555 STRINF RS01865 WP 174221231.1	RYKELKYLILRTPTYGDQVRLDRKNDYFDEIAEVFYDVTPEEERLIIDCLQSKFDVHFSEDVNFCEGILNDYFGQVNRKK	143
consensus	!!***!* *!!!!!!*** ** ** **!!*****!***!!*!*****! ***** * *! *! *** !* **	

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NTDB id 458 SSUD9 RS00355 WP 002935296.1	KLSTNDLMIILRIETIEHCQIEDLSVGTSNYALFTDLIEKLPQSIYDVHSESLFIVRDLFIATVRLFSKELYNHTPVYTEK	234
NTDB id 455 SSU RS00330 WP 012774888.1	KYELNDLLIVRLHLLEYVRLSS..CDSEIFRQFLKTIIEHLHEQINININSNDLFVLRDITLLSCVNLGSKKYVEPIPKIFDS	232
NTDB id 465 SSU05 0053 ABP89025.1	KYELNDLLIVRLHLLEYVRLSS..CDSEIFRQFLKTIIEHLHEQINININSNDLFVLRDITLLSCVNLGSKKYVEPIPKIFDS	237
NTDB id 451 SPYM18 RS00325 WP 002986681.1	RFRQNDLILLELYLAYIDIEGMDGQYSDKIFYDSMDNLSEQFEQFELDELFIVNKTITIDISSSLKNNRLDNLEKATEM	234
NTDB id 443 SPYM3 RS00325 WP 011054099.1	IYINELLLIDLYLIIILVVSFSDDIFDVQFYEEITESMLKQHNNISLEDLFLNNLILSCADTYIRLKMFGHUKETIQL	234
NTDB id 45 SMU RS00375 WP 002263400.1	NYQVNDLILIDLYFSCITVSGLDSAI FDSRKYNQLETLTLKQVDCIPLLEDLFLVNNVLLNNFGILLELKKYDFVQKLIIV	234
NTDB id 1158712 QOR56 RS00440 WP 000912098.1	EYTTNDFFVMIDLILCFSTNYGMKSLYSLENYHFTMSKLLQDNLIP.EDNFQQLNNVLLNHVELAFQFKQKKYVQQIHR	233
NTDB id 555 STRINF RS01865 WP 174221231.1	VETINDLILIDLYFACISSAKKFEGIYSLDFYDDLMKRLVNVQKHVSP.ETDLILNNVLLNNIDIAFQFKREYYTERVITI	222
consensus	* *!*****!** * * * *** * * * * * * * * * * * * * * * * *	

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NTDB id 458 SSUD9 RS00355 WP 002935296.1	IENIMELSQDFQKKPIILNLVKWKYELKVQHHEIAERYNEATFASLNNQFHLKEKLQMEWEKDTQSLKR	305
NTDB id 455 SSU RS00330 WP 012774888.1	VDKIIQSTQDFQKKPIVSVLKWKYALFVDDKDRDEABKHVLDVLFAKLIENRELEQKTEEDWRVDNQ...	299
NTDB id 465 SSU05 0053 ABP89025.1	VDKIIQSTQDFQKKPIVSVLKWKYALFVDDKDRDEABKHVLDVLFAKLIENRELEQKTEEDWRVDNQ...	304
NTDB id 451 SPYM18 RS00325 WP 002986681.1	SQKIMAKIQDWNRMPIKLLEWKYFLIKQKDIKAEQSFMAKCLFAQNTADQYLENKLIQEWKDVKSY..	303
NTDB id 443 SPYM3 RS00325 WP 011054099.1	SHFIMSTIQDFQKMPMYCNYEWKLSIFYLKIDINRARNYFEQSILFTQMTGDTYLVQKLRGEWNKDIHYI..	303
NTDB id 45 SMU RS00375 WP 002263400.1	SNKIMDRTHDFQKKPIVNNLITWKHHLLFVEKDYABAKKSYDAATLFAQLTENINLRENLEKEWQKDSQNGT.	304
NTDB id 1158712 QOR56 RS00440 WP 000912098.1	SNAIMTEIHDFQKKPIILSLWKYLLIIEKDRTKAETCFKQSILFABLELGDLYLKGLIBEWNKDLT...	300
NTDB id 555 STRINF RS01865 WP 174221231.1	SEKIMTEIHDFQRRPILSLVWKYLLIKKDFALABQSSATNATLFARLVGDYILENKLKEWQDLIDAVE..	292
consensus	* *!* *!*****!** **!!* * * * *! * * * * *! * * * *! *! * *! *	

 non conserved
 similar
 $\geq 50\%$ conserved