

NTDB	id 48	STER	RS01535	WP 011680720.1	MN	IKDSI	CLRIK	TERER	QQMSREVL	CLDGAEL	TVRQL	IRIEK	GESLPSLD	RLSYIAKRLGKS	MT	ELL	DQDN	IT	IPD	76																																																											
NTDB	id 321	STU	RS10980	WP 011225448.1	MN	IKDSI	CLRIK	TERER	QQMSREVL	CLDGAEL	TVRQL	IRIEK	GESLPSLD	RLSYIAKRLGKS	MT	ELL	DQDN	IT	IPD	76																																																											
NTDB	id 51	STRSA0001	RS01280	WP 002883753.1	MN	IKDSI	CLRIK	TEREL	LQQMSREVL	CLDGAEL	TVRQL	IRIEK	GESLPSLD	KLSYIAKRLGKS	MT	DLL	DHDN	IT	IPD	76																																																											
NTDB	id 469	HSISS4	RS01285	WP 021143546.1	MN	IKDSI	CLRIK	TERER	QQMSREVL	CLDGAEL	TVRQL	IRIEK	GESLPSLD	KLSYIAKRLGKS	MT	DLL	DHDN	IT	IPD	76																																																											
NTDB	id 579	DLJ51	RS00265	WP 109982338.1	MT	IKADL	GRR	IKAE	RNRKK	ISQSSF	CGDEEK	L	TI	RQL	QRIEH	GQS	LPTLEK	LE	FI	ADRLD	IK	MSD	LLEGRN	IQLPD	76																																																						
NTDB	id 580	DLJ51	RS00275	WP 109982339.1	MT	IK	EV	L	G	RIKE	E	R	SKQ	ISQKL	L	CG	GAAL	TVRQL	QRIEH	GQS	LPTLEK	LE	FI	ARRLD	LK	TS	D	L	L	E	S	V	D	V	Q	L	P	E	76																																								
NTDB	id 458	SSUD9	RS00355	WP 002935296.1	M	NDKEF	GQ	R	V	R	Q	L	R	E	S	A	S	M	T	R	E	Q	F	C	D	E	L	S	V	R	Q	L	T	R	I	E	A	G	A	S	K	P	T	F	S	K	I	Q	Y	I	A	T	R	L	G	M	G	L	Y	E	L	.	M	P	D	Y	V	S	L	P	E	74							
NTDB	id 465	SSU05	0053	ABP89025.1	MEV	W	M	N	D	K	E	F	G	Q	R	V	R	Q	L	R	E	S	A	S	M	T	R	E	Q	F	C	D	E	L	S	V	R	Q	L	T	R	I	E	A	G	A	S	K	P	T	F	S	K	I	Q	Y	I	A	T	R	L	G	M	G	L	Y	E	L	.	M	P	D	Y	V	S	L	P	E	79
NTDB	id 455	SSU	RS00330	WP 012774888.1	M	NDKEF	GQ	R	V	R	Q	L	R	E	S	A	S	M	T	R	E	Q	F	C	D	E	L	S	V	R	Q	L	T	R	I	E	A	G	A	S	K	P	T	F	S	K	I	Q	Y	I	A	T	R	L	G	M	G	L	Y	E	L	.	M	P	D	Y	V	S	L	P	E	74							
NTDB	id 555	STRINF	RS01865	WP 174221231.1	M	R	E	K	E	L	S	R	E	E	F	C	G	D	E	L	S	V	R	Q	L	A	R	I	E	L	N	Q	S	I	P	N	L	S	K	A	S	F	I	A	N	R	L	G	V	K	L	G	T	L	D	G	S	L	E	L	P	K	63																
NTDB	id 45	SMU	RS00375	WP 002263400.1	M	L	K	D	F	G	K	K	I	K	S	L	R	L	E	K	G	L	T	K	E	A	V	C	L	D	E	S	Q	L	S	T	R	Q	L	T	R	I	E	S	G	Q	S	T	P	T	L	N	K	A	V	Y	I	A	G	R	L	G	V	T	L	G	Y	L	T	D	G	E	N	V	E	L	P	S	74
NTDB	id 98148	R8586	RS10625	WP 025169467.1	M	R	E	F	G	E	K	I	K	R	L	R	L	A	K	K	I	S	R	S	E	F	C	G	D	E	S	E	L	S	I	R	Q	L	I	R	I	E	N	G	E	S	R	P	T	L	T	K	I	K	Y	I	A	E	R	L	G	G	V	K	I	T	S		63										
NTDB	id 443	SPYM3	RS00325	WP 011054099.1	M	L	E	H	F	G	G	K	V	K	V	L	R	L	E	K	R	I	S	R	E	D	L	C	G	D	E	S	L	S	V	R	Q	L	A	R	I	E	L	G	Q	S	I	P	S	L	S	K	V	I	F	I	A	K	A	L	N	V	S	V	G	Y	L	T	D	G	A	D	L	E					

NTDB id 48	STER RS01535 WP 011680720.1	EYYEMKNRLIKFPTYRNPDRIKSKLTLIEEVYEKFFDILPEEELLTLDILENILLSFTSWEEPSPKVEEIYEDLFEQVKRRK	156
NTDB id 321	STU RS10980 WP 011225448.1	EYYEMKNRLIKFPTYRNPDRIKSKLTLIEEVYEKFFDILPEEELLTLDILENILLSFTSWEEPSPKVEEIYEDLFEQVKRRK	156
NTDB id 51	STRSA0001 RS01280 WP 002883753.1	EYYEMKNRLIKFPTYRNPRIKAKLALIEEVYEKFFELLSEELLTLDILENILLSFTSWEEPSPKVEEIYEDLFEQVKRRK	156
NTDB id 469	HSISSA RS01285 WP 021143546.1	EYYEMKNRLIKFPTYRNPRIKAKLALIEEVYEKFFELLPEEELLTLDILENILLSFTSWEEPSPKVEEIYEDLFEQVKRRK	156
NTDB id 579	DLJ51 RS00265 WP 109982338.1	DYWEMKARIVKFPTYGDEERIQKKQLIDEIYDKYFDLSPEDELLFLDLSENILGGIHDKNIPDIEEIYDDAFDQVLKKE	156
NTDB id 580	DLJ51 RS00275 WP 109982339.1	DYWAMKARIVKFPTYGEKERIQRKLDLINEVLV KYFDR LPEDELFLDLSENILDRIHDKRIPNIEEIYDDAFEQVLKKK	156
NTDB id 458	SSUD9 RS00355 WP 002935296.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIIVDTLCSLFDVLDTSQEYKGK EILD DYLHQSYHRS	154
NTDB id 465	SSU05 0053 ABP89025.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDL TLESGTAGFGK EILEDY FEQIFKRK	159
NTDB id 455	SSU RS00330 WP 012774888.1	RYSKLKFDVLRTPTYGNEDLAEKRDAMMTEIYDDYYDELPEEEKIAIDAIQSRIDL TLESGTAGFGK EILEDY FEQIFKRK	154
NTDB id 555	STRINF RS01865 WP 174221231.1	RYPELKLYLLRTPTYGDQVRIDRKNDYFDEIAEVFYDVPIPEERELIIDCLQSKFDVHFSEDFNVFGEGILNDYFGGVNRKK	143
NTDB id 45	SMU RS00375 WP 002263400.1	RYPELKLYLLRTPTYGDQQRILA EKETYFDEIFS QFYDDLPEEEQLIIDGLQSKLD IHFS DNIDFGVG ILNDY FDI LRKT	154
NTDB id 98148	R8586 RS10625 WP 025169467.1		63
NTDB id 443	SPYM3 RS00325 WP 011054099.1	RYPELKLYLLRTPTYMDDGKLQVREEQFDEIFEDYYDKLP EEKVAVDIIQA KFEVYQTGDINFGYSILKEFLPQLKRKS	154
NTDB id 451	SPYM18 RS00325 WP 002986681.1	RYPELKLYLLRTPTYMDDGKLQVREEQFDEIFEDYYDKLP EEKI IIDCLQATLDTLSENTE NTFGI DL LQ EYFNQIKTKV	154
consensus		* * * * *	

NTDB	id	48	STER RS01535 WP 011680720.1	KFSTNDLLVIDYFFHLYGR...KQYDKKLFERI	IKRVLNQEIW..DDVYNIVLFNDLMAIAAL	LKIFHNSFSDFLTVV	230
NTDB	id	321	STU RS10980 WP 011225448.1	KFSTNDLLVIDYFFHLYGR...KQYDKKLFERI	IKRVLNQEIW..DDVYNIVLFNDLMAIAAL	LKIFHNSFSDFLTVV	230
NTDB	id	51	STRSA0001 RS01280 WP 002883753.1	KFSTNDLLVIDYFFHLYGR...KQYDKKLFERI	IKRVLNQEIW..DDVYNIVLFNDLMAIAAL	LKIFHNSFSDFLTVV	230
NTDB	id	469	HSISS4 RS01285 WP 021143546.1	KFSTNDLLVIDYFFHLYGR...KQYDKKLFERI	IKRVLNQEIW..DDVYNIVLFNDLMAIAAL	LKIFHNSFSDFLTVV	230
NTDB	id	579	DLJ51 RS00265 WP 109982338.1	RFDNDYLVLGYFLQQCRKD...SDYDYKTFKKIEQ	KLKQLLELLA..DDLNYIELLVTVMDAAAT	VYAFHDDYGNIMPLL	230
NTDB	id	580	DLJ51 RS00275 WP 109982339.1	TFTFNDYLYLSYFLQKCRNE...ASYDRKIFKQIEQ	KLKQLLELLS..DEFYNIEFLAAVMDDAAA	VYAFHDDYKDIMPLL	230
NTDB	id	458	SSUD9 RS00355 WP 002935296.1	KLSINDLMILRLRIEHCQLEDLSVGTS	NVALFTDLEIKLPQSIYDVHS	ESLFI..VRDLFLAIRVILFSKELYNHIPVYI	232
NTDB	id	465	SSU05 0053 ABP89025.1	KYEINDLLIVRLHLLEYVRLSS..CDSEIFRQFLKI	IEHLHEQINIINSN	DLFV..LRDTLLSCVNILGSKKYEPIPKIF	235
NTDB	id	455	SSU RS00330 WP 012774888.1	KYEINDLLIVRLHLLEYVRLSS..CDSEIFRQFLKI	IEHLHEQINIINSN	DLFV..LRDTLLSCVNILGSKKYEPIPKIF	230
NTDB	id	555	STRINF RS01865 WP 174221231.1	VTINDLLIDLDYFACLSAKKFEGISLDFVD	DLMKBLVNQKHVPET.DLI..LNNVLINNID	LAGFKREYTERVI	220
NTDB	id	45	SMU RS00375 WP 002263400.1	NYQVNDLLIDLIDYFSCSLTVSGLDSAIF	DSRKYNQLLETLLKQVDCLPLE	EDLFV..LNNVLNNFGLLELKKYDFVKQLI	232
NTDB	id	98148	R8586 RS10625 WP 025169467.1	.	.	.	63
NTDB	id	443	SPYM3 RS00325 WP 011054099.1	IYNLNELLLIDLILYLIILVVSHFSDDI	FQVFVEETITESMLKQHNNLSLED	FLF..LNNILLSCADTYIRLKMFGHLKETL	232
NTDB	id	451	SPYM18 RS00325 WP 002986681.1	FERNQNDLLELLEYLAYLDIEGMGDQYS	DKIFYDSLNLNSEQFEQFELD	DELFI..VNKIIDISSLKLNRLDNLEKAI	232
consensus				* * *	*	* * * * *	

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NTDB id 48 STER RS01535 WP 011680720.1	DKALAVIEKSQLYSYKPSVFLKAKYELLHKENKKEAAENYDKAIVFASVLEDSVLEESIKAGKLADGL....	299
NTDB id 321 STU RS10980 WP 011225448.1	DKALAVIEKSQLYSYKPSVFLKAKYELLHKENKKEAAENYDKAIMFASVLEDSVLEESIKAGKLADGL....	299
NTDB id 51 STRSA0001 RS01280 WP 002883753.1	DKALAVIEKSQFYKPSVFLKAKYELLHKGNKKEAAENYDKAIMFASVLEDSVLEESIRAGKAADGL....	299
NTDB id 469 HSISS4 RS01285 WP 021143546.1	DKALAVIEKSQFYKPSVFLKAKYELLHKGNKKEAAENYNKAIMFASVLEDSVLEESIKAGKAADGL....	299
NTDB id 579 DLJ51 RS00265 WP 109982338.1	EKLNRIIDKAQLPTYKVGILLELEAKYYIKVVEDKEKAKELYQRALMLGDIIDPTTIADVKMEMKNDGIDE..	301
NTDB id 580 DLJ51 RS00275 WP 109982339.1	KKIHWIIEQAQLHTYKAGVLELEAKYYVKIAKDKDRAKKLYQQALKLGEILEDPAIIADIKMEMKNDGIE...	300
NTDB id 458 SSUD9 RS00355 WP 002935296.1	EKIENIMELSQDFQKKPIINLVKWKYELKVQHNHEIAERYYNEAITFASLLNQFHLKEKLQMEWEKDTQSLKR	305
NTDB id 465 SSU05 0053 ABP89025.1	DSVDKIIQSTQDFQKKPIVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ....	304
NTDB id 455 SSU RS00330 WP 012774888.1	DSVDKIIQSTQDFQKKPIVSVLKWKYALFVDKDRDEAEKHYLDAVLFAKLIENRELEQKIEEDWRVDNQ....	299
NTDB id 555 STRINF RS01865 WP 174221231.1	TISEKIMTEIHDFFQRRPILSLVEWKYYLKLKHDFALEQSFNTATLFARLVGDTYLENKLKEEWQLDIDAVE.	292
NTDB id 45 SMU RS00375 WP 002263400.1	AVSNKIMDRTHDFQKKPIVNLITWKKHHLFVEKDYAEAKKSYDAAILFAQLTENINLRENLEKEWQKDSQNGT.	304
NTDB id 98148 R8586 RS10625 WP 025169467.1		63
NTDB id 443 SPYM3 RS00325 WP 011054099.1	QLSHFIMSTIQDFQKMPMYCMEYEWKLSIFYLKDINRARNYFEQSILFTQMTGDTYLVQKLRGGEWNKDIHYI..	303
NTDB id 451 SPYM18 RS00325 WP 002986681.1	EMSQKIMAKIQDWNRMPIILKLTIEWKYFLIKQKDIIEAEQSFMKACLFQMTADQYLENKLIQEWKDVKSY..	303
consensus	* *** ** * ** * ** ** * * * * * * * * * * *	

- non conserved
- similar
- ≥ 50% conserved