

NTDB id	458	SSUD9 RS00355 WP 002935296.1	MNDKEFGQQRVRQLRESASMTREQFCDDLELSVRQLTRIEAGASKPTFSKIQVIATRLCMGLYELM.PDYVSLPERYSKL	79
NTDB id	455	SSU RS00330 WP 012774888.1	MNDKEFGQQRVRQLRESASMTREQFCDDLELSVRQLTRIEAGASKPTFSKIQVIATRLCMGLYELM.PDYVSLPERYSKL	79
NTDB id	465	SSUO5 0053 ABP89025.1	MEVWFMNDKEFGQQRVRQLRESASMTREQFCDDLELSVRQLTRIEAGASKPTFSKIQVIATRLCMGLYELM.PDYVSLPERYSKL	84
NTDB id	451	SPYM18 RS00325 WP 002986681.1	MLEHFGGKKVKVLRLLEKRISREDLCGDSELSVRQLARIELQGSIPLSKSVIFIAKALNVSGYLTDGADLPELPKRYKEL	79
NTDB id	443	SPYM3 RS00325 WP 011054099.1	MLEHFGGKKVKVLRLLEKRISREDLCGDSELSVRQLARIELQGSIPLSKSVIFIAKALNVSGYLTDGADLPELPKRYKEL	79
NTDB id	38741	KE3 RS01650 WP 173636488.1	MREEKEISRREFCGDETELSVRQLARIELNQSIPLNSKASFIANRLGVKLGTLTDGDSLPELPKRYKEL	68
NTDB id	555	STRINF RS01865 WP 174221231.1	MREEKEISRREFCGDETELSVRQLARIELNQSIPLNSKASFIANRLGVKLGTLTDGDSLPELPKRYKEL	68
NTDB id	45	SMU RS00375 WP 002263400.1	MLKD FGGKIKS LRLLEKGLTKEAVCLDESQLSTRTLTIESGGSTPTLNKA VYIACRLGVTLGYLTDGENVELPSRYKEL	79
consensus			** *** *!*** **!* !?!!**!*?!*! !!*	

[illegible]

NTDB id 458	SSUD9 RS00355 WP 002935296.1	RLFI	EH	CQ	LED	LS	V	G	T	S	N	Y	A	L	F	T	D	L	I	E	K	L	P	Q	S	I	Y	D	V	H	S	E	S	L	F	I	V	R	D	L	F	A	I	V	R	L	F	S	K	E	L	N	H	I	P	V	Y	I	E	K	I	E	N	I	M	E	L	S	Q	D	F	Q	K	K	P	249								
NTDB id 455	SSU RS00330 WP 012774888.1	RLH	L	E	Y	V	R	L	S	S	.	.	C	D	S	E	I	F	R	Q	F	L	K	I	I	E	H	L	H	E	Q	I	N	I	N	S	N	D	L	F	V	L	R	D	T	L	L	S	C	V	N	I	L	G	S	K	Y	Y	E	P	I	P	K	I	F	D	S	V	D	K	I	I	Q	S	T	Q	D	F	Q	K	K	P	247	
NTDB id 465	SSU05 0053 ABP89025.1	RLH	L	E	Y	V	R	L	S	S	.	.	C	D	S	E	I	F	R	Q	F	L	K	I	I	E	H	L	H	E	Q	I	N	I	N	S	N	D	L	F	V	L	R	D	T	L	L	S	C	V	N	I	L	G	S	K	Y	Y	E	P	I	P	K	I	F	D	S	V	D	K	I	I	Q	S	T	Q	D	F	Q	K	K	P	252	
NTDB id 451	SPYM18 RS00325 WP 002986681.1	E	L	Y	L	A	I	D	I	E	G	M	D	G	Q	Y	S	D	K	I	F	D	S	L	D	N	L	S	E	Q	F	E	L	D	F	L	I	V	N	K	I	I	D	I	S	S	S	L	K	N	N	R	L	D	N	E	K	A	T	E	M	S	S	Q	K	I	M	A	K	I	Q	D	N	R	M	P	249							
NTDB id 443	SPYM3 RS00325 WP 011054099.1	D	L	Y	L	I	I	L	V	S	H	F	S	D	D	I	F	D	V	Q	F	Y	E	E	I	T	S	M	L	K	Q	H	N	N	S	L	E	D	L	F	L	N	N	I	L	S	C	A	D	T	Y	I	R	L	K	M	F	G	H	L	K	E	T	L	Q	L	S	H	F	I	M	S	T	I	Q	D	F	Q	K	M	P	249		
NTDB id 38741	KE3 RS01650 WP 173636488.1	D	L	Y	F	A	C	L	S	S	A	K	K	F	E	G	I	Y	S	L	N	F	Y	D	D	L	M	K	R	L	V	N	Q	K	H	V	S	P	E	T	D	.	L	L	N	N	V	L	L	N	N	I	D	A	F	Q	F	K	R	E	Y	I	E	R	V	I	T	I	S	E	K	I	M	T	E	I	H	D	F	Q	R	R	P	237
NTDB id 555	STRINF RS01865 WP 174221231.1	D	L	Y	F	A	C	L	S	S	A	K	K	F	E	G	I	Y	S	L	D	F	Y	D	D	L	M	K	R	L	V	N	Q	K	H	V	S	P	E	T	D	.	L	L	N	N	V	L	L	N	N	I	D	A	F	Q	F	K	R	E	Y	I	E	R	V	I	T	I	S	E	K	I	M	T	E	I	H	D	F	Q	R	R	P	237
NTDB id 45	SMU RS00375 WP 002263400.1	D	L	Y	F	S	C	L	T	V	S	G	L	D	S	A	I	F	D	S	R	K	Y	N	Q	L	E	T	L	L	K	Q	V	D	C	.	P	L	E	D	L	F	L	N	N																																							

NTDB id	458	SSUD9	RS00355	WP	002935296.1	TILNLVKKWKYELKVKQHHEIAERYINEAITFASLQNFHLKEKLQMEWEKD	TQSLKR	305							
NTDB id	455	SSU	RS00330	WP	012774888.1	IIVSVLKWKYALFVDKDRDEAEKHLYDAVLFAKLIENRELECKTEEDWRVDNQ....		299							
NTDB id	465	SSU05	0053	ABP	89025.1	IIVSVLKWKYALFVDKDRDEAEKHLYDAVLFAKLIENRELECKTEEDWRVDNQ....		304							
NTDB id	451	SPYM18	RS00325	WP	002986681.1	ILKLIEWKYYFLIKQDKIIAEQSFMKACLFQAQTADQYLENKLIQEWEKDVKSY..		303							
NTDB id	443	SPYM3	RS00325	WP	011054099.1	MYCMYEWKLSTIFYLKDINRARNYFEQSILFTQMTGDTYLVKCLRGGEWNKDIHYI..		303							
NTDB id	38741	KE3	RS01650	WP	173636488.1	ILSLVEWKYYLKFKHDFALAEQSFNTATLFARLVGDTYLENKLKEEWQLDIDAVE..		292							
NTDB id	555	STRINF	RS01865	WP	174221231.1	ILSLVEWKYYLKFKHDFALAEQSFNTATLFARLVGDTYLENKLKEEWQLDIDAVE..		292							
NTDB id	45	SMU	RS00375	WP	002263400.1	IVNLLITWKHHFLVEKDYAEAKKSYSDAALFLAQLTENINLRNLEKEWQKDSQNGT.		304							
consensus						* * * *	! ! * *	* * *	!	*	* * * *	! * * *	* *	!	!

 non conserved
 similar
 $\geq 50\%$ conserved