

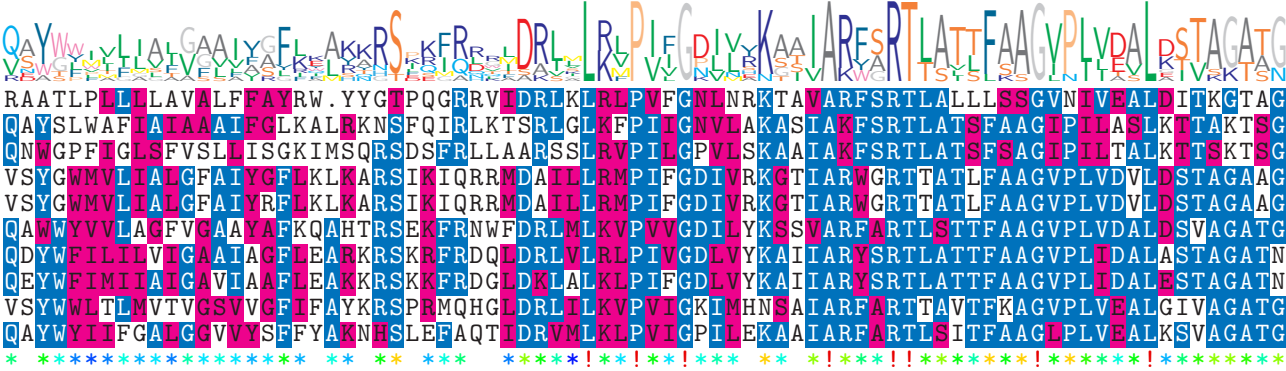
NTDB id 1029	TT RS02230 WP 011228203.1	MPVYQYKARDRQGR.L	VEATIEAEDLRTAARL	LRDRGLFVAET	IKPEPKGLQAEVRIPALER	60			
NTDB id 1169	A1552VC RS11075 WP 000648511.1	MKATQTLPLKKNYRWKGINSGKK	VSGQMLAISEIEVRDK	LKDQHIQIKK	LKKGVSLSLLA....RLTH	63			
NTDB id 1402	DSB67 RS12670 WP 010643257.1	MKTIA	PQLKKNYRWKGINSSGKK	TSGNVLAMTEIEVRERLDAQH	IKKIKKKGSISFIT....KISH	62			
NTDB id 1112	NGAF RS09215 WP 003689811.1	MAKNGGFSLFAKKEKRF	FIEGGRHSASDKLVN	GEVSFAFTEEEARKKLAKRGIRPLQ	ITRVK....T....SSKR	65			
NTDB id 1113	AA85695.1 219..1451()	MAKNGGFSLFAKKEKRF	FIEGGRHSASDKLVN	GEVSFAFTEEEARKKLAKRGIRPLQ	ITRVK....T....SSKR	65			
NTDB id 1198	PSJM300 03950 AFN76868.1	MAQKA	AIKNSVFTWEG	LDRQGAK	IKGELSGVSPALVKAQLRKQGINPQKVRKKSISLFS....AGK	61			
NTDB id 1016	ACIAD RS01680 WP 004920476.1	MAAKKTQVMPV	FAYEGVDRKG	IK	LKGELPARNMALAKVTLRKQG	ITRTIREKRKNIFEG...LLKK	64		
NTDB id 1059	ABD1 RS01610 WP 000279215.1	MAVKKA	QMP	TFAYEGVDRKG	GVKIKGELPAKNMALAKVTLRKQGV	TVRNIREKRKNILEG...LFFK	64		
NTDB id 322219	EBA05 RS17080 WP 024743356.1	MSVARSAIKKQPVDRNTSM	LQTFVWEGADKR	GVKMKGEQQARNANMLRAEL	LRQGGIVPSMVKQKPKPL	LLG....AAGK	74		
NTDB id 1252	GC085 RS07730 WP 011213805.1	MDKNSPPL	LT	FHYQGIN	KAGQKMEGDIQARSLAI	AKADLRKQGI	VTNKKVKKRKL	LFD....RKNK	62
consensus			* * * * *	* * * * *	* * * * *	* * * * *			

NTDB	id	1029	TT	RS02230	WP	011228203.1	GPGLK	D	I	A	F	S	R	Q	L	A	T	M	L	G	A	G	I	T	L	L	Q	A	L	A	I	L	R	Q	T	E	N	R	K	F	R	E	I	L	K	Q	V	R	T	D	V	E	G	G	M	A	F	S	E	A	L	S	K	H	K	.	I	F	S	R	L	V	N	L	V	R	A	G	E		139						
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	R	V	K	S	K	D	I	T	I	T	R	Q	L	A	T	M	L	T	T	G	V	P	I	V	Q	A	L	K	L	V	G	D	N	H	R	K	A	E	M	K	S	I	L	A	Q	I	T	K	S	V	E	A	G	T	P	L	S	K	A	M	R	T	A	S	A	H	F	D	T	L	V	D	L	V	E	T	G	E		143	
NTDB	id	1402	DSB67	RS12670	WP	010643257.1	R	V	K	G	K	D	I	T	I	F	T	R	Q	L	A	T	M	L	M	T	G	V	P	I	V	Q	A	L	K	L	V	S	E	N	H	K	A	E	M	K	S	I	L	M	S	V	T	R	A	V	E	A	G	T	P	M	S	K	A	M	R	T	A	S	T	H	F	D	P	L	Y	T	D	L	I	A	T	G	E		142
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	K	I	T	Q	E	D	I	T	V	F	T	R	Q	L	S	T	M	I	K	A	G	L	P	L	M	Q	A	F	E	I	V	A	R	G	H	N	P	S	M	T	E	M	L	M	E	I	R	G	Q	V	E	Q	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D	R	F	Y	C	N	L	V	A	A	G	E		145	
NTDB	id	1113	AAA85695.1			219..1451()	K	I	T	Q	E	D	I	T	V	F	T	R	Q	L	S	T	M	I	N	A	K	G	L	P	L	M	Q	A	F	E	I	V	A	R	G	H	N	P	S	M	T	E	M	L	M	E	I	R	G	Q	V	E	Q	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D	R	F	Y	C	N	L	V	A	A	G	E		145
NTDB	id	1198	PSJM300	03950	AFN	76868.1	K	I	K	P	M	D	I	A	L	F	T	R	Q	L	A	T	M	K	A	G	V	P	L	L	Q	S	F	D	I	G	E	G	F	D	N	P	N	M	R	K	L	V	D	D	L	K	Q	E	V	A	A	G	N	S	F	A	S	L	R	K	K	P	Q	Y	F	D	D	L	Y	C	N	L	V	D	S	G	E		141		
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	K	V	K	P	L	D	I	A	L	F	T	R	Q	L	A	T	M	K	A	G	V	P	L	V	Q	A	F	E	I	V	A	E	G	L	N	P	A	M	R	D	V	V	L	G	L	K	N	E	V	E	G	G	N	T	F	A	G	A	L	R	K	Y	P	Q	Y	F	D	N	L	F	C	S	L	I	E	S	G	E		144	
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	K	V	T	L	D	I	T	I	F	T	R	Q	L	A	T	M	K	A	G	V	P	L	V	Q	F	E	I	V	A	E	G	L	N	P	A	M	R	E	V	V	L	G	I	K	E	V	E	G	G	S	T	F	A	S	A	L	R	K	Y	P	Q	H	F	D	N	L	F	C	S	L	V	E	S	G	E		144				
NTDB	id	322219	EBA05	RS17080	WP	024743356.1	K	I	T	P	K	D	I	A	F	F	S	R	Q	L	A	T	M	K	S	G	V	P	I	V	S	S	L	E	I	T	G	E	G	H	K	N	P	R	M	K	K	M	V	G	I	R	T	D	I	E																															

NTDB id 1029	TT RS02230 WP 011228203.1	TSGGLDLILDRLASFLKELELRGKIRSAMTYPIVIVFAVGVAYFLLTGIVPQFAQILTDLGSLEPLLRFLIAVSDLL	219
NTDB id 1169	A1552VC RS11075 WP 000648511.1	MSGNLPVFERLATYREKSEQLRAKVIKALIYPSMVVLVALGVSYLMLTMVPIEFESMFKGFGAELPWFTQQVVLKLSHWV	223
NTDB id 1402	DSB67 RS12670 WP 010643257.1	QSCNLSQVFERLATYREKSEQLRAKVIKALIYPAMVVLVALGVSYLMLTRVPIFEKMFRTGFGADLPAFTQMVNLNSMT	222
NTDB id 1112	NGFG RS09215 WP 003689811.1	TGCVLESLLDKLATYKEKTAIRKKVKLTALTYPSVIAVAIGLVFVMMIFVLPFAKVEYANMGAELPPLTQTVMDSDF	225
NTDB id 1113	AAA85695.1 219..1451()	TGCVLESLLDKLATYKEKTAIRKKVKLTALTYPSVIAVAIGLVFVMMIFVLPFAKVEYANMGAELPALTQTVMDSDF	225
NTDB id 1198	PSJM300 03950 AFN76868.1	QSGSLETLDRVATYKEKTEALKAKIKKAMNYPITAVVLVAVIVTAILLIKVVPVQFQDVFAFGAELPAFTQLMVIGLSEAL	221
NTDB id 1016	ACIAD RS01680 WP 004920476.1	QSGSLETLDRVAVYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVPVFKDLFTSFGADLPAFTQLVNNMSNM	224
NTDB id 1059	ABD1 RS01610 WP 000279215.1	QSGALETMLDRVALYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVPVFKDLFASFGADLPAFTQMVNNMSKWM	224
NTDB id 322219	EBA05 RS17080 WP 024743356.1	GAGVLETVLETVATYKENIEALKGKIKKAMFYPATVVAIVAIIVSAILLIFVVPVQFEQVFKSFGAELPAFTQLLVNASRFM	234
NTDB id 1252	GC085 RS07730 WP 011213805.1	KSGSLETLMDKVATYKEKIEIKKKIKKALTYPITAMVVALLTAGLLIYVVPVQFESLFKGFGADLPAMTRAVITMSEFM	222
consensus		* ! ! ! * * * * * ! * * ! ! * * * * * ! * * ! ! * * * * * ! * * ! ! * * * * * ! * * ! ! * * * * *	

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NTDB id	1029	TT	RS02230	WP	011228203.1
NTDB id	1169	A1552VC	RS11075	WP	000648511.1
NTDB id	1402	DSB67	RS12670	WP	010643257.1
NTDB id	1112	NGFG	RS09215	WP	003689811.1
NTDB id	1113	AAA85695.1	219..1451()		
NTDB id	1198	PSJM300	03950	AFN76868.1	
NTDB id	1016	ACIAD	RS01680	WP	004920476.1
NTDB id	1059	ABD1	RS01610	WP	000279215.1
NTDB id	322219	EBA05	RS17080	WP	024743356.1
NTDB id	1252	GC085	RS07730	WP	011213805.1
consensus					



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NTDB id	1169	A1552VC	RS11075	WP	000648511.1
NTDB id	1402	DSB67	RS12670	WP	010643257.1
NTDB id	1112	NGFG	RS09215	WP	003689811.1
NTDB id	1113	AAA85695.1	219..1451()		
NTDB id	1198	PSJM300	03950	AFN76868.1	
NTDB id	1016	ACIAD	RS01680	WP	004920476.1
NTDB id	1059	ABD1	RS01610	WP	000279215.1
NTDB id	322219	EBA05	RS17080	WP	024743356.1
NTDB id	1252	GC085	RS07730	WP	011213805.1
consensus					

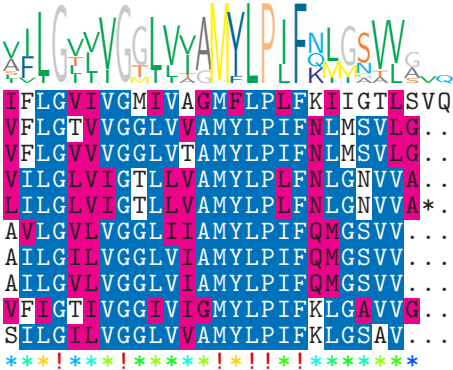


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NTDB id	1029	TT	RS02230	WP	011228203.1
NTDB id	1169	A1552VC	RS11075	WP	000648511.1
NTDB id	1402	DSB67	RS12670	WP	010643257.1
NTDB id	1112	NGFG	RS09215	WP	003689811.1
NTDB id	1113	AAA85695.1	219..1451()		
NTDB id	1198	PSJM300	03950	AFN76868.1	
NTDB id	1016	ACIAD	RS01680	WP	004920476.1
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NTDB id	322219	EBA05	RS17080	WP	024743356.1
NTDB id	1252	GC085	RS07730	WP	011213805.1
consensus					



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- ☒ non conserved
- ☒ similar
- ☒ ≥50% conserved