

NTDB id 1402	DSB67	RS12670	WP 010643257.1	MKTIA	PQL	LKN	YRW	KGI	NSS	GKK	.TSGN	V	L	A	M	T	E	I	E	V	R	R	L	D	A	Q	H	I	K	I	K	L	K	G	S	I	S	F	I	T	K	.I	S	H	R	V	K	G	66																											
NTDB id 1169	A1552VC	RS11075	WP 000648511.1	MKATQ	T	L	P	L	K	N	Y	R	W	K	G	I	N	S	N	G	K	K	.V	S	G	Q	M	L	A	I	S	E	I	E	V	R	D	K	L	K	D	Q	H	I	Q	I	K	L	K	G	S	V	S	L	A	R	.L	T	H	R	V	K	S	67												
NTDB id 1112	NGFG	RS09215	WP 003689811.1	MAKNG	G	F	S	L	F	A	K	K	E	K	R	F	I	F	E	G	R	H	S	A	S	D	K	L	V	N	G	E	V	S	A	F	T	E	E	E	A	R	K	K	L	A	K	R	G	I	R	P	L	Q	I	T	R	V		K	T	S	S	K	R	K	I	T	Q	69						
NTDB id 1113	AAA85695.1	219..1451()		MAKNG	G	F	S	L	F	A	K	K	E	K	R	F	I	F	E	G	R	H	S	A	S	D	K	L	V	N	G	E	V	S	A	F	T	E	E	E	A	R	K	K	L	A	K	R	G	I	R	P	L	Q	I	T	R	V		K	T	S	S	K	R	K	I	T	Q	69						
NTDB id 1198	PJ3M300	03950	AFN76868.1	MAQK	A	I	N	K	S	V	T	E	G	L	D	R	Q	G	A	K	.I	K	G	E	L	S	A	F	T	E	E	S	P	A	L	V	K	A	Q	L	R	K	Q	G	I	N	P	Q	K	V	R	K	S	I	S	I	F	S	..	A	G	K	I	K	P	65										
NTDB id 1016	ACIAD	RS01680	WP 004920476.1	MAAKK	T	Q	V	M	P	V	F	A	Y	E	G	V	D	R	K	G	I	K	.L	K	G	E	L	P	A	R	N	M	A	L	A	K	V	T	L	R	K	Q	G	I	T	I	R	T	I	R	E	K	R	K	N	I	F	E	G	L	L	K	K	V	K	P	68									
NTDB id 1059	ABD1	RS01610	WP 000279215.1	MAVKK	A	Q	M	M	P	T	F	A	Y	E	G	V	D	R	K	G	V	K	.I	K	G	E	L	P	A	K	N	M	A	L	A	K	V	T	L	R	K	Q	G	V	T	V	R	N	I	R	E	K	R	K	N	I	L	E	G	L	F	K	K	V	T	T	68									
NTDB id 170136	AXG53	RS04880	WP 062166722.1	MSVTR	S	A	I	K	N	Q	P	V	A	R	G	T	S	Q	M	L	P	F	V	E	G	T	D	K	R	G	I	K	.M	K	G	E	Q	Q	A	K	S	N	L	L	R	A	E	L	R	R	Q	G	I	N	P	T	V	V	K	P	K	P	K	P	L	F	G	A	.A	G	S	K	I	S	A	78
NTDB id 1252	GC085	RS07730	WP 011213805.1	MDKN	S	P	P	L	T	F	H	Y	Q	I	N	K	A	G	Q	K	.M	E	G	D	I	Q	A	R	S	L	A	I	A	K	A	D	L	R	K	Q	G	I	V	T	N	K	V	V	K	R	K	P	L	F	D	R	.K	N	K	I	T	Q	66													
consensus					*	*	*	*	*																																																																			

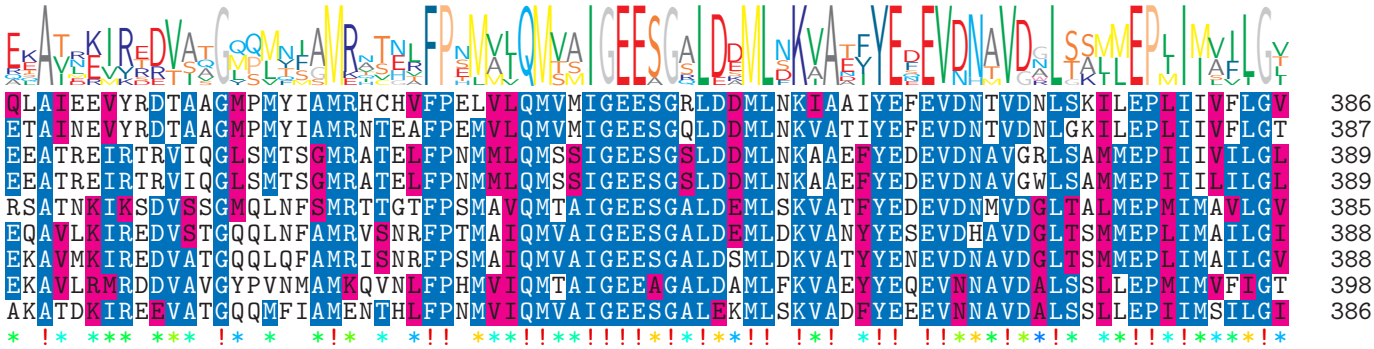
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NTDB id	1169	A1552VC	RS11075	WP	000648511.1	KDITILTRQLATMLTTGVPIVQALKLVGDNRHKAEMKKSILAQITKSV EAGTPLSKAMRTASAHFDTLYVDLIVETGEMSGN	147
NTDB id	1112	NGFG	RS09215	WP	003689811.1	EDITVFRQLSTMIKAGPLMQAFEIVARGHGNSPMTEMLMEIRGQVEEQSSLSRAFSNHPKYFYDRFYCNLVAAAGETGGV	149
NTDB id	1113	AAA85695.1	219..1451()			EDITVFRQLSTMINAGLLMQAFEIVARGHGNSPMTEMLMEIRGQVEEQSSLSRAFSNHPKYFYDRFYCNLVAAAGETGGV	149
NTDB id	1198	PJM300	O3950	AFN	78688.1	MDIALFTFRQLMATMKAGVPLLGSFDITIGEGFDNPNNMRKLVDLDLKQEVAAGNSSRASLRKKPKPYFDDLYCNLVDSGEQSGS	145
NTDB id	1016	ACIAD	RS01680	WP	004920476.1	LDIALFTFRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVVLGLKNEVEGGNTFAGALRKYPQYFDNLFCSLIESGEQSGS	148
NTDB id	1059	ABD1	RS01610	WP	000279215.1	LDITIFTRQLATMMKAGVPLVQGFEIVAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNLFCSLVESGEQSGA	148
NTDB id	170136	AXG53	RS04880	WP	062166722.1	KEIAFFSRQMATMMKSGVPITVGSLIEITIGEGHKNNARMKKMVGDIRTDIEGSSSLHEAISKHPVQFDELYRNLVRAGEGAGV	158
NTDB id	1252	GCO85	RS07730	WP	011213805.1	ADITVFSTRQLATMIESTGIPLVQAQDIVAKGQSNNKRLLKDIIETIKHDIETGLTAEISLIKHPLYFNELFCNLVDAGEKSGS	146
consensus							*!*!*****!!**!*!!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!*****!!*!

NTDB id 1402	DSB67	RS12670	WP	010643257.1	L	S	Q	V	F	E	R	L	A	T	Y	R	E	K	S	E	Q	L	R	A	K	V	I	K	A	L	I	P	A	M	V	V	L	V	A	L	G	V	S	Y	L	M	L	T	R	V	I	P	E	F	E	K	M	F	T	G	F	G	A	D	L	P	A	F	T	Q	M	V	L	N	L	S	A	W	T	Q	N	W	G	226
NTDB id 1169	A1552VC	RS11075	WP	000648511.1	L	P	E	V	F	E	R	L	A	T	Y	R	E	K	S	E	Q	L	R	A	K	V	I	K	A	L	I	P	S	M	V	V	L	V	A	L	G	V	S	Y	L	M	L	T	M	V	I	P	E	F	E	S	M	F	K	G	F	G	A	E	L	P	W	F	T	Q	Q	V	L	K	L	S	H	W	V	Q	A	Y	S	227
NTDB id 1112	NGFG	RS09215	WP	003689811.1	L	E	S	L	L	D	K	L	A	I	Y	K	E	K	T	Q	A	I	R	K	K	V	K	T	A	L	T	P	V	S	V	I	A	V	A	I	G	L	V	F	V	M	M	I	F	V	L	P	A	F	K	E	V	A	N	M	G	A	E	L	P	L	T	Q	T	V	M	D	S	D	F	V	S	Y	G	229				
NTDB id 1113	AAA85695.1	219..1451()			L	E	S	L	L	D	K	L	A	I	Y	K	E	K	T	Q	A	I	R	K	K	V	K	T	A	L	T	P	V	S	V	I	A	V	A	I	G	L	V	F	V	M	M	I	F	V	L	P	A	F	K	E	V	A	N	M	G	A	E	L	P	L	T	Q	T	V	M	D	S	D	F	V	S	Y	G	229				
NTDB id 1198	PSJM300	03950	AFN	76868.1	L	E	T	L	D	R	V	A	I	Y	K	E	K	S	E	L	K	Q	K	I	K	K	A	M	N	P	I	A	V	V	L	V	A	V	I	T	A	I	L	L	K	V	P	V	Q	F	D	V	F	A	N	F	G	A	E	L	P	A	F	T	L	M	V	I	G	L	S	E	A	L	Q	A	W	W	225					
NTDB id 1016	ACIAD	RS01680	WP	004920476.1	L	E	I	M	L	D	R	V	A	I	Y	K	E	S	E	V	L	K	Q	K	I	K	K	A	M	K	Y	P	A	T	V	I	V	A	I	V	T	I	I	L	M	V	K	V	P	V	F	K	D	L	F	T	S	F	G	A	D	L	P	A	F	T	Q	L	V	V	N	M	S	N	W	M	Q	D	Y	W	228			
NTDB id 1059	ABD1	RS01610	WP	000279215.1	L	E	T	M	L	D	R	V	A	I	Y	K	E	S	E	L	L	K	Q	K	I	K	K	A	M	K	Y	P	A	T	V	I	V	A	I	V	T	I	I	L	M	V	K	V	P	V	F	Q	D	L	F	A	S	F	G	A	D	L	P	A	F	T	Q	M	V	V	N	M	S	K	W	M	Q	E	Y	W	228			
NTDB id 170136	AXG53	RS04880	WP	062166722.1	L	E	T	V	L	D	T	V	A	N	Y	K	E	N	I	E	T	L	K	G	K	I	K	K	A	L	F	P	A	A	V	V	A	V	A	L	I	V	S	S	V	L	L	V	W	V	P	Q	F	E	E	V	F	K	S	F	G	A	D	L	P	A	F	T	Q	L	I	V	A	A	S	R	F	M	V	S	W	W	238	
NTDB id 1252	GCO85	RS07730	WP	011213805.1	L	D	I	M	L	D	K	V	A	I	Y	K	E	N	I	E	I	L	K	K	I	K	K	A	L	T	P	I	A	V	M	V	A	L	L	V	A	G	L	L	I	V	V	P	Q	F	E	S	L	F	K	G	F	G	A	D	L	P	A	M	T																			

NTDB	id	1402	DSB67	RS12670	WP	010643257.1	PF	I	G	L	S	F	V	S	L	I	S	G	K	I	M	S	Q	R	S	D	S	F	R	L	L	A	A	R	S	S	L	R	V	P	I	L	G	P	V	L	S	K	A	A	I	A	K	F	S	R	T	L	A	T	S	F	S	A	G	I	P	I	L	T	A	L	K	T	T	S	K	T	S	G	N	M	H	Y	306		
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	LW	A	F	I	A	A	A	I	F	G	L	K	A	L	R	K	N	S	F	Q	I	R	L	K	T	S	R	L	G	L	K	F	P	I	I	G	N	V	L	A	K	A	S	I	A	K	F	S	R	T	L	A	T	S	F	A	A	G	I	P	I	L	A	S	L	K	T	T	A	K	T	S	G	N	V	H	F	307			
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	W	M	V	L	I	A	L	G	F	A	I	Y	G	F	L	K	L	K	A	R	S	I	K	I	Q	R	R	M	D	A	I	L	L	R	M	P	I	F	G	D	I	V	R	K	G	T	I	A	R	W	G	R	T	T	A	T	L	F	A	A	G	V	P	L	V	D	V	L	D	S	T	A	G	A	A	G	N	L	I	Y	309
NTDB	id	1113	AAA85695.1	219..1451()			W	M	V	L	I	A	L	G	F	A	I	Y	G	F	L	K	L	K	A	R	S	I	K	I	Q	R	R	M	D	A	I	L	L	R	M	P	I	F	G	D	I	V	R	K	G	T	I	A	R	W	G	R	T	T	A	T	L	F	A	A	G	V	P	L	V	D	V	L	D	S	T	A	G	A	A	G	N	L	I	Y	309
NTDB	id	1198	PJ3M300	03950	AFN	76868.1	Y	V	V	I	A	G	F	V	G	A	A	Y	A	F	K	Q	A	H	T	R	S	E	K	F	R	N	W	F	D	R	L	M	L	K	V	P	V	V	G	D	I	L	Y	K	S	S	V	A	R	F	A	R	T	L	S	T	T	F	A	A	G	V	P	L	V	D	A	L	D	S	V	A	G	A	T	G	N	V	F	305	
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	F	I	L	I	L	V	I	G	A	A	I	A	G	F	L	E	A	R	K	R	S	K	R	F	R	D	Q	L	D	R	L	V	L	R	L	P	I	V	G	D	L	V	Y	K	A	I	I	A	R	Y	S	R	T	L	A	T	T	F	A	A	G	V	P	L	I	D	A	L	A	S	T	A	G	A	T	N	N	T	V	Y	308
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	F	I	M	I	L	I	A	G	A	V	I	A	A	F	L	E	A	K	K	R	S	K	K	F	R	D	G	L	D	K	L	A	L	K	L	P	I	F	G	D	L	V	Y	K	A	I	I	A	R	Y	S	R	T	L	A	T	T	F	A	A	G	V	P	L	I	D	A	L	E	S	T	A	G	A	T	N	N	V	I	Y	308
NTDB	id	170136	AXG53	RS04880	WP	062166722.1	W	I	I	L	L	A	L	V	G	S	I	V	G	F	L	Y	A	Y	K	R	S	P	A	M	Q	H	T	M	D	K	L	I	L	K	V	P	V	I	G	Q	I	M	H	N	S	A	I	A	R	F	A	R	T	T	G	V	T	F	K	A	G	V	P	L	V	E	A	L	G	I	V	A	G	A	T	G	N	S	V	Y	318
NTDB	id	1252	GC085	RS07730	WP	011213805.1	Y	I	I	F	G	A	L	G	G	V	V	Y	S	F	F	Y	A	K	N	S	L	E	F	A	Q	T	I	D	R	V	M	L	K	L	P	V	I	G	P	I																																									

logo

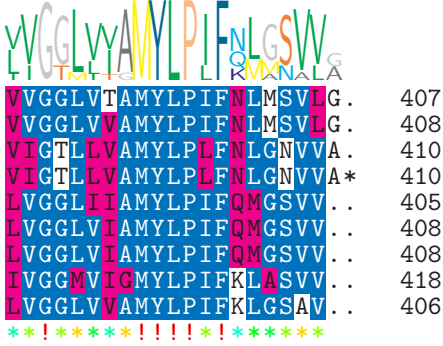
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NTDB id 1059 ABD1 RS01610 WP 000279215.1
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NTDB id 1252 GC085 RS07730 WP 011213805.1
consensus



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NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
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NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 170136 AXG53 RS04880 WP 062166722.1
NTDB id 1252 GC085 RS07730 WP 011213805.1
consensus



☒ non conserved
☒ similar
☒ ≥ 50% conserved