

NTDB	id	1402	DSB67	RS12670	WP	010643257.1	.MKT.....	IPQLKNYRWKGINSSGKK	.TSGNVLAMTEIEVRRERLDAQHIK	IKKLKKSISFITK	.ISHRVKVKGDITI	71	
NTDB	id	236768	CEJ46	RS02780	WP	047688859.1	MNTK.....	IKSELKNYRWKGINSSGKK	.VSGQTLALTELEVVRDKLKEQHIQ	IKKIKKGGVSFITR	.LTHRVVKARDITI	72	
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	MKAT.....	QTLPLKNYRWKGINSSGKK	.VSGQMLAISEIEVRDKLKDQHIQ	IKKLKKSISVS	LLAR.LTHRVVSKDITI	72	
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	.MAKNGGFSLF	AKKEKRFIFEGRHSASDKLV	NGEVSFAFTEEEARKKLAKRGIRPLQITRV	KTSSRK	KITQEDITV	74	
NTDB	id	1113	AA85695.1	219..1451()			.MAKNGGFSLF	AKKEKRFIFEGRHSASDKLV	NGEVSFAFTEEEARKKLAKRGIRPLQITRV	KTSSRK	KITQEDITV	74	
NTDB	id	1252	GCO85	RS07730	WP	011213805.1	.MDKN.....	SPPLTFHYQGINKAGQK	.MEGDIQARSLAIAKADLRKQGI	VTNKVVKKRKP	LFDR.KNKKITQA	DITV	71
NTDB	id	1198	PSJM300	03950	AFN76868.1		.MAQK.....	AIKNSVFTWEGLDRQGAK	.IKGELSGVSPALVKAQLRKQGINPQ	KVRKKSISLFS	.AGKKIKPMDIAL	70	
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	MAVKK.....	AQMMPFTFAYEGVDRKGVK	.IKGELPAKNMALAKVTLRKQGV	TVRNIREKRKN	ILEGLFKK	KVTTLDITI	73
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	MAAKK.....	TQVMPVFAYEGVDRKGIK	.IKGELPARNMALAKVTLRKQGV	ITRTIREKRKN	IFEGLLKK	KVKPLDIAI	73
consensus							***	* * * * *	* * * * *	* * * * *	* * * * *	***	

[illegible]

NTDB id	1402	DSB67	RS12670	WP	010643257.1	E	R	L	A	T	Y	E	K	S	E	Q	L	R	A	K	V	I	K	A	L	I	Y	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	I	N	L	S	A	T	Q	N	W	G	P	F	I	G	L		231	
NTDB id	236768	CEJ46	RS02780	WP	047688859.1	E	R	L	A	T	Y	E	K	S	E	Q	L	R	A	K	V	I	K	A	L	I	Y	P	T	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	S	Y	S	L	W	V	L	I		232
NTDB id	1169	A1552VC	RS11075	WP	0006048511.1	E	R	L	A	T	Y	E	K	S	E	Q	L	R	A	K	V	I	K	A	L	I	Y	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	S	Y	S	L	W	A	F	I		232
NTDB id	1112	NGAF	RS09215	WP	003689811.1	D	K	L	A	T	Y	E	K	E	Q	A	T	R	K	K	V	K	T	A	L	T	Y	P	S	V	S	I	A	V	A	I	G	L	V	F	V	M	I	F	V	L	P	A	F	K	E	V	Y	A	N	M	G	A	E	L	P	L	T	Q	T	V	M	D	M	S	D	F	F	V	S	Y	G	M	V	L	I		234			
NTDB id	1113	AA85695.1	219..1451()			D	K	L	A	T	Y	E	K	E	Q	A	T	R	K	K	V	K	T	A	L	T	Y	P	S	V	S	I	A	V	A	I	G	L	V	F	V	M	I	F	V	L	P	A	F	K	E	V	Y	A	N	M	G	A	E	L	P	L	T	Q	T	V	M	D	M	S	D	F	F	V	S	Y	G	M	V	L	I		234			
NTDB id	1252	GCO85	RS07730	WP	011213805.1	D	K	V	A	T	Y	E	K	E	I	E	I	K	K	K	I	K	K	A	L	T	Y	P	I	A	V	M	V	A	L	L	V	T	A	G	L	L	I	Y	V	V	P	Q	F	E	S	L	F	K	G	F	G	A	D	L	P	A	M	T	R	A	V	I	T	M	S	E	F	M	Q	A	Y	W	Y	I	I	F	G		231	
NTDB id	1198	PSJM300	03950	AFN76868.1		D	R	V	A	T	Y	E	K	E	I	E	A	L	K	A	K	I	K	A	M	N	Y	P	I	A	V	V	L	V	A	V	I	T	A	I	L	L	I	K	V	V	P	Q	F	Q	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	Y	V	V	L	A		230		
NTDB id	1059	ABD1	RS01610	WP	000279215.1	D	R	V	A	T	Y	E	K	S	E	L	L	K	Q	I	K	K	A	M	K	Y	P	A	T	V	I	V	V	A	I	V	V	T	I	I	L	M	V	K	V	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	F	I	M	I		233		
NTDB id	1016	ACIAD	RS01680	WP	004920476.1	D	R	V	A	T	Y	E	K	S	E	V	L	L	K	Q	I	K	K	A	M	K	Y	P	A	T	V	I	V	V	A	I	V	V	T	I	I	L	M	V	K	V	V	P	V	F	K	D	L	F	A	S	F	G																												

NTDB	id	1402	DSB67	RS12670	WP	010643257.1	SFVSL	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	Q	L	A	I	E		311					
NTDB	id	236768	CEJ46	RS02780	WP	047688859.1	I	I	L	T	T	I	A	V	K	A	V	R	Q	K	S	F	L	R	L	K	T	S	R	L	G	L	K	F	P	I	L	G	G	V	I	G	K	A	S	I	A	K	F	S	R	T	L	A	T	S	F	S	A	G	I	P	I	L	A	S	L	K	T	T	A	K	T	A	G	N	V	H	F	E	T	A	I	N		312		
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	A	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	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	E	T	A	I	N		312	
NTDB	id	1112	NGF	RS09215	WP	003689811.1	A	L	G	F	A	I	F	G	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	D	V	L	D	S	T	A	G	A	G	N	L	I	Y	E	E	A	T	R		314					
NTDB	id	1113	AA85695.1		219..1451()		A	L	G	F	A	I	F	G	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	D	V	L	D	S	T	A	G	A	G	N	L	I	Y	E	E	A	T	R		314					
NTDB	id	1252	GC085	RS07730	WP	011213805.1	A	L	G	G	V	V	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	L	E	K	A	A	I	A	R	F	A	R	T	L	S	I	T	F	A	A	G	L	P	L	V	E	A	L	K	S	V	A	G	A	T	G	N	I	I	Y	A	K	A	T	D		311		
NTDB	id	1198	PSJM300	03950	AFN76868.1		G	F	V	C	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	D	A	L	D	S	V	A	G	A	T	G	N	V	V	F	S	A	T	N		310		
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	A	T	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	E	K	A	V	M		313
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	V	I	G	A	I	A	C	F	L	E	A	R	K	R	S	K	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</																														

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NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 236768 CEJ46 RS02780 WP 047688859.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451()
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
consensus

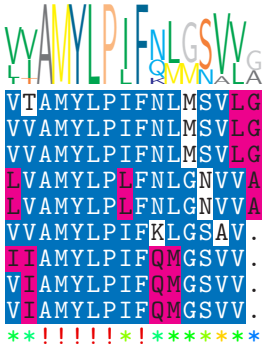


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NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 236768 CEJ46 RS02780 WP 047688859.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451()
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
consensus



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☐ non conserved
☒ similar
☒ ≥ 50% conserved