

NTDB	id	1402	DSB67	RS12670	WP	010643257.1	MKTIA PQ LK N YRWKGINS G .KKTSGNVLAMTEIEVRRERLDAQH I K I KLK K GSISFIT K .	59
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	MKATQTLP L KNYRWKGINS G .KKVSCQMLAISEIEVRDK LKD QHIQ I KLK K GSVS L LAR.	60
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	MAKNGGFS L F A KK E KR F IFEGRHSA D KL V NGEV S AFTEEEAR K LAKRGIRPLQ I TRV K T.....S	62
NTDB	id	1113	AAA85695.1	219..1451()			MAKNGGFS L F A KK E KR F IFEGRHSA D KL V NGEV S AFTEEEAR K LAKRGIRPLQ I TRV K T.....S	62
NTDB	id	139879	TK49	RS06265	WP	045785943.1	MATRAPAANRAAAAPARKTAK T A P Q T Y I FEW E GKD R K G .K I FKGVEM A ETIT E VNAI L RK Q LS I TK S KRRRA.....A	74
NTDB	id	1252	GC085	RS07730	WP	011213805.1	MDKN S PP L TL F H Y QG I N K AG.QKM E GD I QARS L AI A KADLRK Q GIVTN K V V KKRKP L FDR.	59
NTDB	id	1198	PSJM300	03950	AFN	76868.1	MAQ K A I KNS V FT W EGLDR Q G.A K IK G ELSG V SPAL V K A QLRK Q GINP Q K V R K SIS L FS..	58
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	MAAK T Q V MP V FAYEGVD R K G .IK L K G ELPARNMALAK V TLRK Q GIT I RTIRE K R K N I FEGL	61
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	MAVK K AQM P PT F AYEGVD R K G .VK I K G ELP A KNMALAK V TLRK Q GV T VRNI R E K R K N I LEGL	61
consensus							* * * * *	

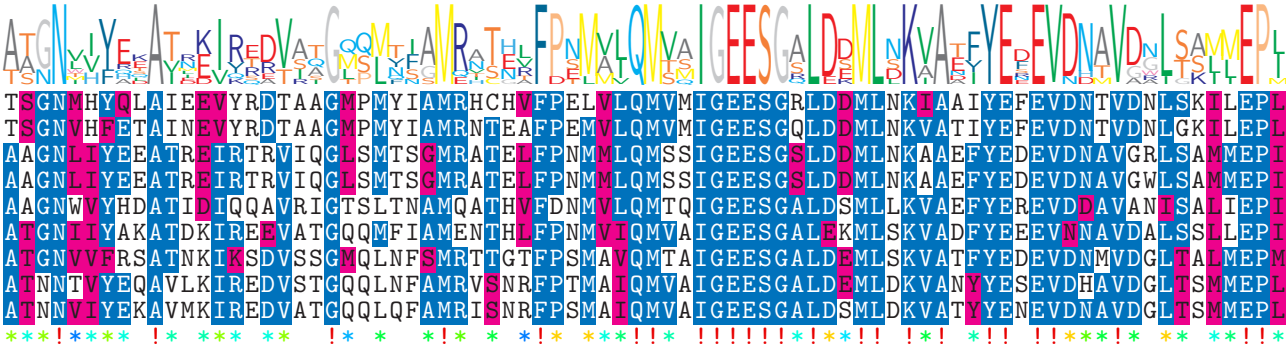
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NTDB	id 1169	A1552VC	RS11075	WP 000648511.1	L	T	H	R	V	K	S	K	D	I	T	L	T	R	Q	L	A	T	M	L	T	T	G	V	P	I	V	Q	A	L	K	L	V	G	D	N	H	R	K	A	E	M	K	S	I	L	A	Q	I	T	K	S	V	E	A	G	T	P	L	S	K	A	M	R	T	A	S	A	H	F	D	T	L	Y	V	D	L	V	E	140		
NTDB	id 1112	NGFG	RS09215	WP 003689811.1	S	K	R	K	I	T	Q	E	D	I	T	V	F	T	R	Q	L	S	T	M	L	K	A	C	L	P	L	M	Q	A	F	E	I	V	A	R	G	H	G	N	P	S	M	T	E	M	L	E	I	R	G	Q	V	E	Q	G	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D	R	F	Y	C	N	L	V	A	142		
NTDB	id 1113	AAA85695.1	219..1451()		S	K	R	K	I	T	Q	E	D	I	T	V	F	T	R	Q	L	S	T	M	L	K	A	C	L	P	L	M	Q	A	F	E	I	V	A	R	G	H	G	N	P	S	M	T	E	M	L	E	I	R	G	Q	V	E	Q	G	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D	R	F	Y	C	N	L	V	A	142		
NTDB	id 139879	TK49	RS06265	WP 045785943.1	R	G	K	K	I	T	P	K	D	I	A	Y	F	T	R	Q	L	S	T	M	L	K	A	G	V	P	L	L	Q	S	I	D	I	A	R	G	H	A	N	P	N	F	T	Q	L	L	T	E	I	R	M	D	I	E	S	G	S	S	M	A	Q	A	F	R	H	P	R	Y	F	D	T	L	Y	C	N	L	I	D	144			
NTDB	id 1252	GC085	RS07730	WP 011213805.1	K	N	K	K	I	T	Q	A	D	I	T	V	F	S	R	Q	L	A	T	M	L	E	S	G	T	P	L	V	Q	A	F	D	I	V	A	K	Q	S	N	K	R	L	K	D	L	I	E	T	I	K	H	D	I	E	T	G	L	T	L	A	E	S	L	I	K	H	P	L	Y	F	N	E	L	F	C	N	L	V	D	139		
NTDB	id 1198	PSJM300	03950	AFN76868.1	A	G	K	K	I	K	P	M	D	I	A	L	F	T	R	Q	L	A	T	M	L	K	A	G	V	P	L	L	Q	S	F	D	I	L	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	S	L	R	K	K	P	Q	Y	F	D	D	L	Y	C	N	L	V	D	138
NTDB	id 1016	ACIAD	RS01680	WP 004920476.1	L	K	K	V	K	P	L	D	I	A	L	F	T	R	Q	L	A	T	M	L	K	A	G	V	P	L	V	Q																																																						

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NTDB	id	1402	DSB67	RS12670	WP	010643257.1	A	T	Q	N	G	P	F	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	S	K	299			
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	H	W	V	Q	A	Y	S	L	W	A	F	I	A	L	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	300
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	D	F	F	V	S	Y	G	M	V	L	I	A	L	G	F	A	I	Y	G	F	L	K	L	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	L	S	T	A	G	302			
NTDB	id	1113	AAA85695.1	219..1451()			D	F	F	V	S	Y	G	M	V	L	I	A	L	G	F	A	I	Y	G	F	L	K	L	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	L	S	T	A	G	302			
NTDB	id	139879	TK49	RS06265	WP	045785943.1	D	E	F	V	Q	W	Y	F	I	V	F	V	P	I	I	C	I	V	A	R	V	A	F	K	R	S	E	N	V	Q	R	A	T	H	R	W	I	L	K	M	P	I	F	G	D	I	I	R	K	A	T	I	A	R	W	T	R	T	L	A	T	M	F	A	A	G	T	P	L	V	E	S	M	E	S	V	A	G	314	
NTDB	id	1252	GC085	RS07730	WP	011213805.1	E	F	M	Q	A	Y	W	Y	T	I	F	G	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	299	
NTDB	id	1198	PSJM300	03950	AFN76868.1		E	A	L	Q	A	W	Y	V	V	L	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	S	V	A	G	298	
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	N	W	M	Q	D	Y	W	F	I	L	I	V	T	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	S	T	A	G	301	
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	K	M	Q	E	Y	W	F	I	M	I	A	I	C	A	V	I	A	A	F	L	E	A	K	K	R	S	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																										

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NTDB id 1402 DSB67 RS12670 WP 010643257.1
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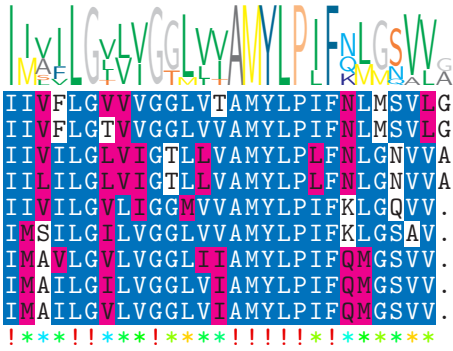


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NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus



407
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410
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405
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 non conserved
 similar
 ≥50% conserved