

NTDB id 1402	DSB67 RS12670 WP 010643257.1	MKTIA PQ LKN YRWKGINSS.GKK TSG NVL AMTEIEV RER LDA QHI KIK KLK KGSI S F I TK.	59
NTDB id 1169	A1552VC RS11075 WP 000648511.1	MKATQ TLPLKN YRWKGINSN.GKK VSC QMLAISE IEVRDKL KDQ HIQ IKKLK KGSVS ILAR.	60
NTDB id 1252	GC085 RS07730 WP 011213805.1	MDKN SPPLTFHYQGINKA.GQKMEGDIQARS LAI AKADLRKQGI VTNKVVKRKPLFDR.	59
NTDB id 1198	PSJM300 03950 AFN76868.1	MAQKA IKN SVFTW EGLDRQ.GAKIKGELSGVPALVA KV LRKQGINPQKVRKKSILFS..	58
NTDB id 1016	ACIAD RS01680 WP 004920476.1	MAAAKKTQMPVFAYEGVDRK.GIKLKGE LSPARNMALAKVT LRKQGITRTIREKRKNIFEGL	61
NTDB id 1059	ABD1 RS01610 WP 000279215.1	MAVKK AQMMPTFAYEGVDRK.GVKIKGELPAKNMALAKVT LRKQGVTVRNIREKRKNILEGL	61
NTDB id 232264	CCY86 RS03240 WP 003266028.1	MATRAPTANRSAAA SARKTAATKAPTQYLFEWEGKDRK.GKAFKGEMRAESITEVNAV LRKQGLSITKSKRRRAA.....	74
NTDB id 1112	NGFG RS09215 WP 003689811.1	MAKNGGFSLFAKKEKRFI...FEGRHSASDKLVNGEVS AFTEEEEARKKLAKRGIRPLQITRVKTS.....	62
NTDB id 1113	AAA85695.1 219..1451()	MAKNGGFSLFAKKEKRFI...FEGRHSASDKLVNGEVS AFTEEEEARKKLAKRGIRPLQITRVKTS.....	62
consensus		* * * * *	

NTDB	id 1402	DSB67	RS12670	WP	010643257.1	IS	HRV	KGK	DIT	IF	TRQ	LAT	MT	GV	PI	VQ	ALK	L	V	SEN	HH	KA	EM	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	H	F	D	P	L	T	D	L	I	A	139																									
NTDB	id 1169	A1552VC	RS11075	WP	000648511.1	LT	HRV	KSK	DIT	IL	TRQ	LAT	MT	TT	GV	PI	VQ	ALK	L	V	G	D	NH	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 1252	GC085	RS07730	WP	011213805.1	KN	KKI	T	Q	A	D	I	T	V	S	R	Q	L	A	T	M	E	S	G	I	P	L	V	Q	A	F	D	I	V	A	K	G	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	139				
NTDB	id 1198	PSJ300	03950	AFN	76868.1	A	G	K	K	I	Q	A	D	I	T	V	S	R	Q	L	A	T	M	E	S	G	I	P	L	V	Q	A	F	D	I	V	A	K	G	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	138		
NTDB	id 1016	ACIAD	RS01680	WP	004920476.1	L	K	K	V	K	P	L	D	I	A	I	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	K	N	E	V	E	G	G	T	F	A	S	A	L	R	K	Y	P	Q	H	F	D	N	L	F	C	S	L	V	E	141			
NTDB	id 1059	ABD1	RS01610	WP	000279215.1	F	K	K	V	T	L	D	I	T	I	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	E	V	V	L	G	I	K	G	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	141		
NTDB	id 232264	CCY86	RS03240	WP	003266028.1	R	G	K	K	I	T	P	K	D	V	A	Y	F	T	R	Q	L	S	T	M	L	K	A	G	V	P	L	Q	S	V	D	I	A	R	G	H	A	N	P	N	F	T	Q	L	L	T	E	I	R	V	D	I	E	S	G	S	S	M	A	Q	A	F	R	R	H	P	K	Y	F	D	S	L	Y	C	N	L	I	D	154
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	G	V	P	L	Q	A	F	E	I	V	A	R	G	H	G	N	P	S	M	T	E	M	L	M	E	I	R	G	Q	V	E	Q	G	S	S	L	S	R	A	F	S	N	H	P	K	Y	F	D								

NTDB id	1402	DSB67 RS12670 WP	010643257.1	TGEQSGNLSQVFERLATYREKSEQLRAKVIKALITYPAMVVVLVALGVSYLMLTRVIPFEFEMFTGFGADLPAAFTQMVLNL	219
NTDB id	1169	A1552VC RS11075 WP	000648511.1	TGEMSNGNLPVVFERLATYREKSEQLRAKVIKALITYPSMVVLVALGVSYLMLTMVIPFEFESMFKGFGAELPWFTQQVLKL	220
NTDB id	1252	GC085 RS07730 WP	011213805.1	AGEKSGSLDILMDKVATYKEKETIIRKKIKKALTYPITAVMMVALLTVTAGLLTIYVVPQFESLFKGFGADLPAMTRAIVTMS	219
NTDB id	1198	PSJM300 Q3950 AFW7686.1		SGEQSGLSELTLDRAVATYKEKETALKAKIKKANPNIAVVLVAIVVTAILLIKVPVQFSDVFAFMGAELPAFTLMVIGLS	218
NTDB id	1016	ACIAD RS01680 WP	004920476.1	SGEQSGLSLETLMDRAVATYKEKSELVKQKIKKAMPYPATVIVVAIVVTIIIMLVKVPVPFQDLFTSFAGADLPAAFTQLVNIMS	221
NTDB id	1059	ABD1 RS01610 WP	000279215.1	SGEQSGALETMLDRVAITYEKEKSELLKQKIKKAMPYPATVIVVAIVVTIIIMLVKVPVPFQDLFASFGADLPAAFTQMVMNMS	221
NTDB id	232264	CYC86 RS03240 WP	003266028.1	AGEQGGLDALLERLSMYMEKSIALKAQIKSAMIPISVLTVAFLVTIVLMIFVVPAPFNKFASFAGATLPAPTLLVMNIS	234
NTDB id	1112	NGFG RS09215 WP	003689811.1	AGETGCVLESLLDKLATYKEKTQAIRKKVKKTALTYPVSIVAIAVGILVFMVIFVLPAPFKEVYANMGAEPLPTQTVMDS	222
NTDB id	1113	AAA85695.1	219..1451()	AGETGCVLESLLDKLATYKEKTQAIRKKVKKTALTYPVSIVAIAVGILVFMVIFVLPAPFKEVYANMGAEPLPALTTQTVMDMS	222
consensus				*!*****!!**!*!!!!!!!**!!***!!****!!*!!!!!!*!!!!!!*!!!!!!*	

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	T	S	K	299		
NTDB	id	1169	A1552VC	RS11075	WP	000648511.1	H	W	V	C	A	Y	S	L	W	A	F	I	A	A	A	I	F	G	L	K	A	L	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	1252	GC085	RS07730	WP	011213805.1	E	F	M	Q	A	Y	W	Y	I	I	F	G	A	L	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	G	G	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	AFN	76868.1	E	A	L	Q	A	Y	W	V	V	V	L	A	G	F	V	C	A	A	F	K	A	H	T	R	S	E	K	F	R	N	W	F	D	R	L	M	L	K	V	P	V	G	D	I	L	Y	K	S	S	A	R	F	A	R	T	L	S	T	T	F	A	A	G	V	P	L	V	D	L	S	V	A	G	298						
NTDB	id	1016	ACIAD	RS01680	WP	004920476.1	N	W	Q	A	Y	W	I	I	I	V	I	G	A	A	I	A	G	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	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	301					
NTDB	id	1059	ABD1	RS01610	WP	000279215.1	K	W	M	Q	E	Y	W	F	I	M	I	I	A	I	G	A	V	I	A	A	F	L	E	A	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	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	301	
NTDB	id	232264	CCY86	RS03240	WP	003266028.1	D	E	F	V	K	W	Y	I	I	I	F	A	P	A	V	C	I	F	L	Y	A	R	A	F	K	R	S	L	K	V	Q	R	N	T	H	K	A	I	L	K	M	P	I	F	G	S	I	I	R	K	A	T	I	A	R	W	T	R	T	L	A	T	M	F	S	A	G	T	P	L	V	E	S	M	E	S	V	A	G	314
NTDB	id	1112	NGFG	RS09215	WP	003689811.1	D	F	F	V	S	Y	G	W	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	W	M	V	L	I	A	L	G	F	A	I	Y	R	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																			

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NTDB id 232264 CCY86 RS03240 WP 003266028.1
NTDB id 1112 NGFG RS09215 WP 003689811.1
NTDB id 1113 AAA85695.1 219..1451( )
consensus
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