

logo

NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1468 ASU2 RS05090 WP 014991734.1	.....	0
NTDB id 81979 RG25 RS14065 WP 001025173.1	.....	0
NTDB id 1436 BW25113 RS00530 WP 001025145.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
consensus		

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NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
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NTDB id 1468 ASU2 RS05090 WP 014991734.1		0
NTDB id 81979 RG25 RS14065 WP 001025173.1		0
NTDB id 1436 BW25113 RS00530 WP 001025145.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
consensus		

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NTDB id 1028 TT RS08215 WP 011173991.1	EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAALLL	240
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NTDB id 1355 HI 0298 AAC21962.1		0
NTDB id 1384 A4U84 RS08525 WP 010787006.1		0
NTDB id 1468 ASU2 RS05090 WP 014991734.1		0
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NTDB id 1436 BW25113 RS00530 WP 001025145.1		0
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NTDB id 1401 DSB67 RS12665 WP 010643259.1		0
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NTDB id 1110 NGFG RS09235 WP 003689817.1		0
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NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
consensus		

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NTDB id 81979 RG25 RS14065 WP 001025173.1		0
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NTDB id 1401 DSB67 RS12665 WP 010643259.1		0
NTDB id 1293 VP RS12240 WP 005479695.1		0
NTDB id 1110 NGFG RS09235 WP 003689817.1		0
NTDB id 1251 GC085 RS07725 WP 011946523.1		0
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NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
consensus		

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NTDB id 1028 TT RS08215 WP 011173991.1	KEALEVQKGLPRAKPLGEIIVELGLARPEDVEEALQKQRRGGGRLEDITLVQSGKLRPEALIAQAVATQLGYPYVDPEEDPP	400
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NTDB id 1355 HI 0298 AAC21962.1	MTSY....ALLHTQRVTAQNGEIFTI.....SP	24
NTDB id 1384 A4U84 RS08525 WP 010787006.1	MSQY....T....ICEQQTERIFDI.....SP	19
NTDB id 1468 ASU2 RS05090 WP 014991734.1	MQY....S....VCDMNSQQVFDI.....SE	18
NTDB id 81979 RG25 RS14065 WP 001025173.1	MNIPQL.....	6
NTDB id 1436 BW25113 RS00530 WP 001025145.1	MNIPQL.....	6
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAIIRQAELISATQEQAVVTQVSASGTSVPEALLLELSIFHAQELTEQLSHIFGLPETDLSRYDY	69
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSQEESSLLEQVKASGISMPEALLSSGFFQSHETELHSSVFGLSCTSLNQYDY	69
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLSTILRQKGLLTFSQEESSLLEQVKASGISMPEALLSSGFFTSSELAEHLSSIFGLSQPELSQYDY	69
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAEHYH.NESQAGKEVLPMFLSDGVISPKSLAALIARVFSYSILDLRHYPR	68
NTDB id 1251 GC085 RS07725 WP 011946523.1	...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAQAQNFVPMPLDINCIDV	77
NTDB id 1018 ACIAD RS01685 WP 004920473.1	...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQALEKAKKFKQDIVPYLIDNFSISPLTIAEIIISLEFGEPLLDLGVFDP	77
NTDB id 1058 ABD1 RS01615 WP 001274986.1	...MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIEEVHLSPSLLAETISAEEFAEPYFDLDVYDT	77
consensus	*	

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NTDB id 1028 TT RS08215 WP 011173991.1	DPGAPLLLPEDLCRRYGVFPHRLEGNRLVLLMKDPRNILLALDDVRLALKRKGLNVEVAPAVATEAAITKLTIERFYGKAEL	480
NTDB id 1366 NTHI RS01950 WP 011271972.1	DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGK....PVEPILLESSQLKELLQQLTPHQM	99
NTDB id 1355 HI 0298 AAC21962.1	DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGK....PVEPILLESSQLKELLQQLTPNQ	99
NTDB id 1384 A4U84 RS08525 WP 010787006.1	SRWQKNCEEKQLLRLYLAVPVQETEHKLWLAVDENNLTACEIFAFMTHK....QTEPVVVIASDELKYLNLALSPEQ	94
NTDB id 1468 ASU2 RS05090 WP 014991734.1	SLWQKNCEKHLILRLYLAIPIQENDDTLWLAIDDMNNLSACEIFAFIAHK....TIEPVLLISSDELKYLNLALSPEQ	93
NTDB id 81979 RG25 RS14065 WP 001025173.1	TALCLRYQGVLDDASEEVVHVAVVDAPSHELLDALHFATTK....RIEITCWTRQQMEGHA.....	63
NTDB id 1436 BW25113 RS00530 WP 001025145.1	TALCLRYHGVLLDASEEVVHVAVVDAPSHELLDALHFATTK....RIEITCWTRQQMEGHA.....	63
NTDB id 1168 A1552VC RS11070 WP 000957200.1	ANLCQQLGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEEFEFRFATGL....QVELALADHRAALQAATIRRLYGR	144
NTDB id 1401 DSB67 RS12665 WP 010643259.1	ASLCQTLGLRLDITRHNALPLNRTSSTLILAVADPTNLQAEDDFRATGL....QVELVLADFRELTAATIRRLYGR	144
NTDB id 1293 VP RS12240 WP 005479695.1	ASLCQQLGLRELITRHNALPLHRTPTSTLLAVADPTNLQAEDDFRATGL....QVELVLADFRELSTAIRRLYGR	144
NTDB id 1110 NGFG RS09235 WP 003689817.1	HRVLMGVLTEEQMVFEHCVPVFRRGDKVFFAVSDPTQMPQIKTVSAAGI....AVELVIVEDDQLAGLLDWVGR	143
NTDB id 1251 GC085 RS07725 WP 011946523.1	GTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKETIQFHTGL....NTHAIVVETDKLSALIDNLTAKES	152
NTDB id 1018 ACIAD RS01685 WP 004920473.1	ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNTEAMDAIRFNSKL....KVEPIIVEHDKLERLLSEHFVEETH	152
NTDB id 1058 ABD1 RS01615 WP 001274986.1	SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNPSNIEAIDAIRFNSKL....LVEPVIVEHHKLEKVLGQHFAEES	152
consensus	*****	

NTDB	id	1028	TT	RS08215	WP	011173991.1	SEIAKEF.....AKKQAEEEVPSPLEL	DESAAQKFVKQVIREAFLQDASDIHI	EPRQNDVQ	VRLRIDGALRP	547
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	VEEQVK.....FYQHqETHFEQE	DDEPVIIRLLNQIFESALQKNASDIHLE	TTLADQFQVRFRIDGVLQP	162	
NTDB	id	1355	HI	0298	AAC21962.1		VEEQVK.....FYQHqETHFEQE	DDEPVIIRLLNQIFESALQKNASDIHLE	TTLADQFQVRFRIDGVLQP	162	
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	IYESEE.....LAFVEQE.QEQLNLND	PIIQLLDNLFKFKLAQNASDIHIEPRKQKLI	IRLRIDGVLHL	157	
NTDB	id	1468	ASU2	RS05090	WP	014991734.1	LYEETE.....LNYQSPDNLDDLNNQND	PIIQILLDNLFKFKLQKNASDIHFEPQKEKLQ	IRLRIDGVLHI	157	
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NTDB	id	1436	BW25113	RS00530	WP	001025145.1	SRTQQTLPVAVQEKHQ	PKAELLTRTLQSALEQRASDIHI	EPADNAYRIRLRIDGVLHP	121	
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	GAAANQGKEISQ..DELANLVKVVSDDDELQSIEDLSQ	DDSPVSRFINQVLLDAVRKGASDIHFEPYENQYR	IRLRCDGITLVE	222	
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	KEKSGLKEINQ..DELAGLVDIGEDEIENIEDLSQ	DESPVSRYINQILLDAVRKGASDIHFEPYENMYR	VRRLCDGITLIE	222	
NTDB	id	1293	VP	RS12240	WP	005479695.1	HEKSGLKEINQ..EELASLVVDVGADEIDNIEDLSQ	DESPVSRYINQILLDAVRKGASDIHFEPY	EKMRYRRLCDGITLIE	222	
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	L..LQEL.....GEGQEEEESTLYIDNEEA	EDGPVPRFIHKLTSDALRSGASDIHFEFYEHNR	IRFRVGDQQLRE	212	
NTDB	id	1251	GC085	RS07725	WP	011946523.1	QGLSEYVEDSGDLEGLEISAD.DEDQDIDTATSVTD	DAPIVKFVNKILLDAIRQASDIHFEPYEREYRI	RYRQDGITLHE	231	
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	FNFDTE...ELD...LDVEVDPHTTDDDEDKDKLK	DEAPIVKYINKLLIDAIRMSASDLHFEPYEKS	YRVRYRVDGVLRL	226	
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	FDFNDE...EFD...LDVNLDGPTAQEDEEEAPQG	DEAPIVKYINKLLIDAIRMGASDLHFEPYEKS	YRVRYRVDGVLRLQ	226	
consensus							** * *	*****	!! ! ! ! ! ! ! ! ! !	* * * * *	!! ! ! ! ! ! ! ! ! !

NTDB	id	1028	TT	RS08215	WP	011173991.1	YSTLPKGALNAV	ISVVKIMGGLNIAEKRLPQDGRVRYREG..AIDV	DLRLSTLPTVYGEKAVMRLKKASDIP	ETEDLGF	625
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	QPLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTT	.SDILDFRLSTLPTHWGEKIVLRAQQNKPVLSFAELGM		241	
NTDB	id	1355	HI	0298	AA021962.1		QPLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTT	.SDILDFRLSTLPTHWGEKIVLRAQQNKPVLSFAELGM		24	
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NTDB	id	1468	ASU2	RS05090	WP	014991734.1	YKSLSFSLANRITIRLKLAKLDISETRLPQDGRFQFNKTVT	.AETLDFRVSSLPTSGEKEIVLRLQKNKPTHDFLELGF		236	
NTDB	id	81979	RG25	RS14065	WP	001025173.1	LPDVSPDAGVALTARLKVGLGNLDIAEHRLPQDGRQFTVELA	..GNAVSFRIATLPCRGEKVVLRLLQQVGQALDVNTLGM		199	
NTDB	id	1436	BW25113	RS00530	WP	001025145.1	LPDVSPDAGVALTARLKVGLGNLDIAEHRLPQDGRQFTVELA	..GNAVSFRIATLPCRGEKVVLRLLQQVGQALDVNTLGM		199	
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	TQQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR	.DTAIDMRVSTLPTLWGEKIVLRLLDSSAANLIDIKLGY		301	
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	IQPPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQ	.DTAIDMRVSTLPTLFGEKIVLRLLDSSSAAIDINKLGY		301	
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NTDB	id	1058	ABD1	RS01615	WP	001274986.1	IANPPLQLANRLASRLKVM SQMDISEKRV PQDGRIKLKLSK	.SKAIDFRVNSLPTLFGEKIVLRILDPSSAMLGIDA LGY		305	
consensus							*** ** *	*** ** *	*** ** *	*** ** *	*** ** *

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NTDB	id	1355	HI	0298	AA	C21962.1	T	E	N	Q	Q	A	F	Q	R	V	L	S	Q	P	Q	C	L	I	L	V	T	G	P	T	G	S	G	K	S	I	S	L	Y	T	A	L	Q	W	L	N	T	P	D	K	H	I	M	T	A	E	D	P	I	E	I	E	L	D	G	I	I	Q	S	Q	I	N	P	Q	I	G	L	D	F	N	R	L	L	R	A		32
NTDB	id	1384	ASU8	RS08525	WP	O10787006.1	N	P	Q	Q	T	T	L	N	A	L	K	Q	P	Q	C	L	I	L	V	T	G	P	T	G	S	G	K	S	I	T	L	S	A	L	N	Y	L	N	Q	M	D	K	H	I	L	T	A	E	D	P	V	E	I	E	I	D	G	I	I	Q	S	Q	I	N	P	Q	I	G	L	D	F	S	Q	L	R	A		316			
NTDB	id	1468	A4U2	RS05090	WP	O14991734.1	S	P	E	C	Q	T	L	L	T	A	L	H	Q	P	Q	C	L	I	L	V	T	G	P	T	G	S	G	K	S	I	T	L	S	A	L	N	Y	L	N	S	E	R	H	I	L	T	A	E	D	P	I	E	I	E	I	E	G	I	I	Q	T	V	N	R	A	I	G	L	D	F	S	Q	L	R	A		316				
NTDB	id	81979	RG25	RS14065	WP	O01025173.1	Q	P	L	Q	L	A	D	F	A	H	A	L	Q	Q	P	Q	C	L	V	L	V	T	G	P	T	G	S	G	K	T	V	T	L	S	A	L	Q	T	L	N	T	A	D	I	N	I	C	S	V	E	D	P	V	E	I	P	I	A	G	L	N	Q	T	Q	I	H	P	R	A	G	L	T	F	Q	G	V	L	R	A		279
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NTDB	id	1401	DSB67	RS12665	WP	O10643259.1	S	D	S	S	Q	K	Q	L	Y	L	D	A	L	R	R	P	Q	C	M	I	L	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	G	L	S	I	L	N	K																																							

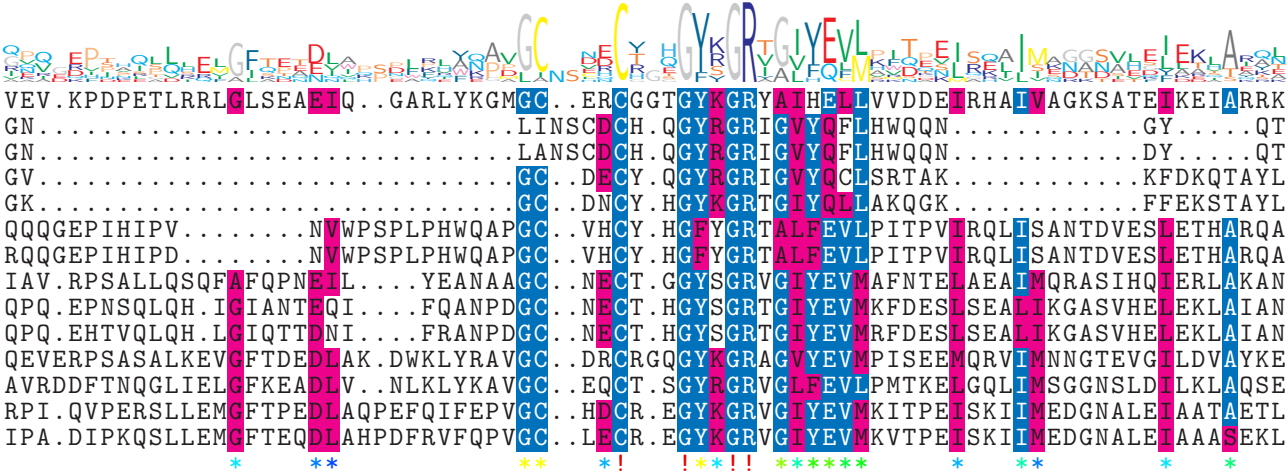
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NTDB	id	1028	TT	RS08215	WP	011173991.1
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NTDB	id	81979	RG25	RS14065	WP	001025173.1
NTDB	id	1436	BW25113	RS00530	WP	001025145.1
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consensus						



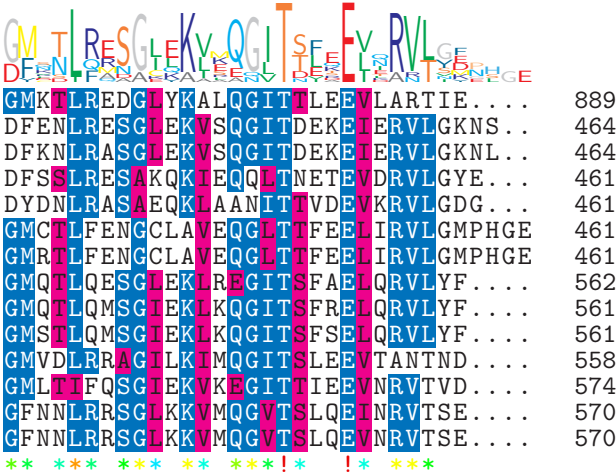
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NTDB	id	1384	A4U84	RS08525	WP	010787006.1
NTDB	id	1468	ASU2	RS05090	WP	014991734.1
NTDB	id	81979	RG25	RS14065	WP	001025173.1
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NTDB	id	1251	GC085	RS07725	WP	011946523.1
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NTDB	id	1018	ACIAD	RS01685	WP	004920473.1
NTDB	id	1058	ABD1	RS01615	WP	001274986.1
consensus						



 non conserved
 similar
 $\geq 50\%$ conserved