

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 318450 D7A46 RS11035 WP 001274990.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	0
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPPSG	160
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 318450 D7A46 RS11035 WP 001274990.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVDPDPSAALLL	0
NTDB id 1028 TT RS08215 WP 011173991.1	EGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILVRKGLPEEALYRALAEQKGLEFLESTEGIVDPDPSAALLL	240
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 318450 D7A46 RS11035 WP 001274990.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

NTDB id 1410 SGL RS13950 WP 010873519.1	MTSSSS	6
NTDB id 1028 TT RS08215 WP 011173991.1	LRSDALRYGAVPIGFQNGEVEVVLSDRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSREAL	320
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 318450 D7A46 RS11035 WP 001274990.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

NTDB	id 1410	SGL RS13950 WP 010873519.1	SKKSRVAVALRNYFSPFGNKLVAAGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELKVLYGVD	86
NTDB	id 1028	TT RS08215 WP 011173991.1	KEAIVQKQGLPFAKPLGETLVELGLARPEDVEEALQKQRGGGRLEDTLVQ..SGKLRPEALAAQA.....VATQLGYGP	391
NTDB	id 1168	A1552VC RS11070 WP 000957200.1	MLTNLVALLRQAELISATQEQAVVTQVSASGTSVPPEALLE..LSIFHAQELTEQ.....LSHTFGIP	60
NTDB	id 1293	VP RS12240 WP 005479695.1	MHSNLSTILRRQKGLTFSQEESLIEQVKASGISMPAALLS..SGFFTSSELAEH.....LSSIFGLS	60
NTDB	id 1401	DSB67 RS12665 WP 010643259.1	MLTNLSTVLRRQAGILTFSQEESLLEQVKASGISMPAALLS..SGFFQSHELTEH.....LSSVFGLS	60
NTDB	id 1110	NGFG RS09235 WP 003689817.1	MSVGLLRLLVQNQVVTVQEAHHYY.NESQACKEVLPMLFS..DGVISPKS LAAL.....IARVFSYS	59
NTDB	id 1251	GCO85 RS07725 WP 011946523.1	...MALATEEYRLQGTGLLVLEKLLDKTKAIELHKLA AA EKI SLLQYIVK..NKILSAEQIALT.....AAQNFQVP	68
NTDB	id 318450	D7A46 RS11035 WP 001274990.1	...MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.....ISAEFAEP	68
NTDB	id 1058	ABD1 RS01615 WP 001274986.1	...MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.....ISAEFAEP	68
NTDB	id 1018	ACIAD RS01685 WP 004920473.1	...MSAFTTPPKFSGFIRRLVEEGYVNANQQALEKAKKFQKDITPYPLID..NFSISPLTI AEI.....ISLEFGEP	68
consensus			* * * * *	

NTDB	id	1410	SGL	RS13950	WP	010873519.1	S	V	D	P	E	V	A	P	I	A	T	Q	Q	M	A	E	L	I	G	R	F	F	L	D	T	C	R	R	F	K	F	L	P	L	A	Q	Q	E	G	D	P	P	S	V	L	V	A	M	V	D	P	D	N	L	A	A	Q	D	E	L	N	R	I	L	R	V	K	G	F	.	E	L	R	R	L	V	V	T	164			
NTDB	id	1028	TT	RS08215	WP	011173991.1	Y	V	D	P	E	E	D	P	P	D	P	.	.	.	.	.	.	G	A	P	L	L	P	E	D	L	C	R	R	Y	G	V	F	P	H	R	L	E	.	.	G	N	R	L	V	L	L	M	K	D	P	R	N	I	L	A	L	D	D	V	R	L	A	L	K	R	K	G	L	N	Y	E	V	A	P	A	V	A	T	463		
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	E	T	D	L	S	R	Y	D	Y	A	N	.	.	.	.	.	.	L	C	Q	Q	L	G	L	R	E	L	I	T	R	Y	D	A	L	P	T	A	K	Q	.	.	G	N	L	L	L	A	V	S	D	P	T	L	L	Q	A	E	E	F	R	F	A	T	G	.	.	.	.	.	.	L	Q	V	E	L	A	L	A	D	127		
NTDB	id	1293	VP	RS12240	WP	005479695.1	Q	P	E	L	S	Q	Y	E	Y	A	S	.	.	.	.	.	.	L	C	Q	Q	L	G	L	R	E	L	I	T	R	H	N	A	L	P	L	H	R	T	.	.	P	S	T	L	L	A	V	A	D	P	T	N	Q	A	E	D	D	F	R	F	A	T	G	.	.	.	.	.	.	L	Q	V	E	L	V	L	A	D	127		
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	C	T	S	L	N	H	Y	E	Y	A	S	.	.	.	.	.	.	L	C	Q	T	L	G	L	R	D	L	I	T	R	H	N	A	L	P	L	N	R	T	.	.	S	S	T	L	I	L	A	V	A	D	P	T	N	Q	A	E	D	F	R	F	A	T	G	.	.	.	.	.	.	L	Q	V	E	L	V	L	A	D	127		
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	I	L	D	L	R	H	Y	P	R	H	R	.	.	.	.	.	.	V	L	M	G	V	L	T	E	E	Q	M	V	E	F	H	C	V	P	V	F	R	R	.	.	G	D	K	V	F	F	A	V	S	D	P	T	Q	M	P	Q	I	Q	K	T	V	S	A	A	G	.	.	.	.	.	.	I	A	V	E	L	V	I	V	E	126
NTDB	id	1251	GCO85	RS07725	WP	011946523.1	M	L	D	I	N	C	I	D	V	G	T	.	.	.	.	.	.	I	P	V	N	L	V	N	E	K	L	I	K	R	H	A	M	V	P	L	F	S	R	.	.	G	T	N	L	Y	L	A	T	D	D	P	S	K	Q	A	S	L	K	E	I	Q	F	H	T	G	.	.	.	.	.	.	L	N	T	H	A	I	V	E	135	
NTDB	id	318450	D7A46	RS11035	WP	001274990.1	Y	F	D	L	D	V	Y	D	T	S	Q	.	.	.	.	.	.	I	P	K	D	L	V	D	Q	K	L	I	L	K	H	R	I	L	P	L	I	Q	R	.	.	G	Q	I	L	Y	V	A	T	S	N	P	S	N	I	E	A	I	D	A	I	R	F	N	S	K	.	.	.	.	.	.	L	L	V	E	P	V	I	V	E	135
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	Y	F	D	L	D	V	Y	D	T	S	Q	.	.	.	.	.	.	I	P	K	D	L	V	D	Q	K	L	I	L	K	H	R	I	L	P	L	I	Q	R	.	.	G	Q	I	L	Y	V	A	T	S	N	P	S	N	I																											

NTDB id 1410 SGL RS13950 WP 010873519.1	QDDFNQLLEEQYYAIREEWAAAEKRDQERALDKLNDLTDIVGSIDMNLG	EDKEDVDNALDSNDA	NQAPVINLVNKILAKA	244	
NTDB id 1028 TT RS08215 WP 011173991.1	EAAATKLIERFYGKAELSEIAKEF.....	AKKKQAEEVPSPLEL	DESAAQKFVKQVIREA	518	
NTDB id 1168 A1552VC RS11070 WP 000957200.1	HRAALQAARRLYGRSISQGAANGK...EI.SQDELANL.....	VKVSDDELSQIEDLSQ	DDSPVSRFINQVLIDA	193	
NTDB id 1293 VP RS12240 WP 005479695.1	FRELSTAIRRLYGRSLSHEKSGLK...EI.NQEELASL.....	VDVGADIEDNIEDLSQ	DESPPSRYINQILLDA	193	
NTDB id 1401 DSBB7 RS12665 WP 010643259.1	FRELTAAIRRLYGRSLGSGKGLK...EI.NQDELAGL.....	VDIGADEIENIEDLSQ	DESPPSRYINQILLDA	193	
NTDB id 1110 NGFG RS09235 WP 003689817.1	DDQLACLLDWVGRSTSL..LQEL.....	GEG.....	QEEEEHSHTLYIDNEEA	EDGPVPRIHKTLSDA	183
NTDB id 1251 GC085 RS07725 WP 011946523.1	TDKLSALIDNLLTAKESSQGLSEYVEDSG.DLEGLEIS.....	AD.DEDQDIDTATSVT	DDAPIVKFVNKILLDA	202	
NTDB id 318450 D7A46 RS11035 WP 001274990.1	HHKLEKVLGGHFEEESSDFDNDE...EF.D...LDVN.....	LDGPTTQEDEEEAPQG	DEAPIVKYINKLLIDA	197	
NTDB id 1058 ABD1 RS01615 WP 001274986.1	HHKLEKVLGGHFEEESSDFDNDE...EF.D...LDVN.....	LDGPATAEDEEAPQG	DEAPIVKYINKLLIDA	197	
NTDB id 1018 ACIAD RS01685 WP 004920473.1	HDKLERLLSEHVEETHFNFDTE...EL.D...LDVE.....	VDPHTTDDDDDDKCLK	DEAPIVKYINKLLIDA	197	
consensus	* ** **** * *	*	** ***** *	***** ***** *****!	

NTDB id 1410	SGL RS13950 WP 010873519.1	LQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQ..GRKVDFRV	322
NTDB id 1028	TT RS08215 WP 011173991.1	FLQDASDIHIEPRQNDVQVRLRIDGALRPYSTL.PKGALNAVISVVVKIMGGLNIAEKRLPQDGRVRYR..EGAIDVDLRL	595
NTDB id 1168	A1552VC RS11070 WP 000957200.1	VRKGASDIHFEPYENQYRILRLRCDCGILVETQQP.ASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTAIDMRV	271
NTDB id 1293	VP RS12240 WP 005479695.1	VRKGASDIHFEPYEKMYYRVLLRCDCGILLETQQP.PNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNG.DTAIDMRV	271
NTDB id 1401	DSB67 RS12665 WP 010643259.1	VRKGASDIHFEPYEMMYRVLLRCDCGILLETQQP.PSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNG.DTAIDMRV	271
NTDB id 1110	NGFG RS09235 WP 003689817.1	LRSGASDIHFEFYEHNAIRIRFVDDGQLREVVPQPIAVRGQLASRIKVMNSLDISEKRIPQDGMQLTFQKGGKPVDFRV	262
NTDB id 1251	GCO85 RS07725 WP 011946523.1	IRQGASDIHFEPYERFYRIRYRQDGIHEVATP.PASLSRITARIKVMNSLDISERRIPQDGFCKMKISK.SRAIDFRV	280
NTDB id 318450	D7A46 RS11035 WP 001274990.1	IRMGASDLHFEPYEKSYRVRYRVDGMLRQIANP.PLQLANRLASRLKVMSQMDISEKRVPPQDGRIKLKLSK.SKAIIDFRV	275
NTDB id 1058	ABD1 RS01615 WP 001274986.1	IRMGASDLHFEPYEKSYRVRYRVDGVLRLQIANP.PLQLANRLASRLKVMSQMDISEKRVPPQDGRIKLKLSK.SKAIIDFRV	275
NTDB id 1018	ACIAD RS01685 WP 004920473.1	IRMSASDLHFEPYEKSYRVRYRVDGVLRLLIATP.PLQLATRLASRLKVMSQMDISEKRVPPQDGRIKLKMSK.SKTIDFRV	275
consensus		* * * * ! * ! * ! * * * * * * ! * ! * ! * * * * * * ! * ! * ! * ! * ! * ! * ! * ! * ! * ! *	

NTDB id 1410	SGL RS13950 WP 010873519.1	N	T	L	P	S	R	Y	G	E	K	V	C	L	R	I	L	D	S	A	T	Q	L	G	L	D	F	L	I	T	N	P	E	T	L	Q	T	V	R	E	L	A	A	R	P	Y	G	L	M	V	T	G	P	T	G	S	G	K	S	T	T	L	Y	S	V	L	A	E	R	N	S	P	E	V	N	I	N	T	A	402		
NTDB id 1028	TT RS08215 WP 011173991.1	S	T	L	P	T	V	Y	G	E	K	A	V	M	R	L	L	K	K	A	S	D	I	P	E	I	E	D	L	G	F	A	P	G	V	F	E	R	F	K	E	V	I	S	K	P	Y	G	I	F	L	I	T	G	P	T	G	S	G	K	S	F	T	T	F	S	I	L	K	R	I	A	T	P	D	K	N	T	Q	T	I	675
NTDB id 1168	A1552VC RS11070 WP 000957200.1	S	T	L	P	T	L	W	G	E	K	I	V	L	R	L	D	S	S	A	A	N	L	D	I	D	K	L	G	Y	N	P	Q	Q	K	Q	L	Y	L	N	A	L	K	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	R	I	L	N	T	S	Q	I	N	I	S	T	A	351		
NTDB id 1293	VP RS12240 WP 005479695.1	S	T	L	P	T	L	F	G	E	K	I	V	L	R	L	D	S	S	A	S	L	D	I	D	K	L	G	Y	S	E	Q	Q	K	Q	L	Y	L	E	A	L	R	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	N	I	L	N	K	P	E	I	N	I	S	T	A	351			
NTDB id 1401	DSB67 RS12665 WP 010643259.1	S	T	L	P	T	L	F	G	E	K	I	V	L	R	L	D	S	S	A	A	L	D	I	N	K	L	G	Y	S	D	S	Q	Q	K	Q	L	Y	L	D	A	L	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	N	K	P	E	I	N	I	S	T	A	351						
NTDB id 1110	NGF6 RS09235 WP 003689817.1	S	T	L	P	T	L	F	G	E	K	V	M	R	I	L	N	S	D	A	A	S	L	N	I	D	Q	L	G	F	E	P	F	Q	K	K	L	L	E	A	T	H	R	P	Y	G	M	V	L	T	G	P	T	G	S	G	K	T	V	S	L	T	C	L	N	I	L	N	T	E	S	V	N	I	A	T	A	342				
NTDB id 1251	GCO85 RS07725 WP 011946523.1	S	T	C	P	T	S	A	G	E	K	V	M	R	V	L	D	S	G	A	A	K	L	G	I	E	A	L	G	F	N	P	V	Q	R	T	N	F	L	K	A	I	Q	R	P	Q	G	M	I	L	V	T	G	P	T	G	S	G	K	T	V	T	L	Y	T	A	L	N	I	L	N	T	I	E	V	N	I	S	T	A	360	
NTDB id 318450	D7A46 RS11035 WP 001274990.1	N	S	L	P	T	L	F	G	E	K	I	V	L	R	L	D	P	S	S	A	M	L	G	I	D	A	L	G	Y	E	E	D	Q	K	A	L	F	M	E	A	L	D	K	P	Q	G	M	L	I	T	G	P	T	G	S	G	K	T																							

logo

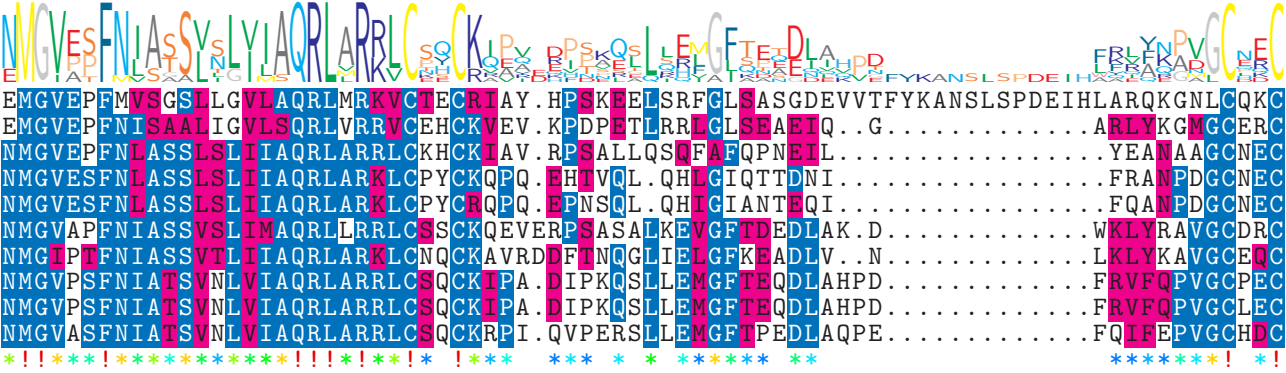
NTDB id	1410	SGL RS13950 WP 010873519.1
NTDB id	1028	TT RS08215 WP 011173991.1
NTDB id	1168	A1552VC RS11070 WP 000957200.1
NTDB id	1293	VP RS12240 WP 005479695.1
NTDB id	1401	DSB67 RS12665 WP 010643259.1
NTDB id	1110	NGFG RS09235 WP 003689817.1
NTDB id	1251	GC085 RS07725 WP 011946523.1
NTDB id	318450	D7A46 RS11035 WP 001274990.1
NTDB id	1058	ABD1 RS01615 WP 001274986.1
NTDB id	1018	ACIAD RS01685 WP 004920473.1
consensus		



482
755
431
431
431
422
440
435
435
435

logo

NTDB id	1410	SGL RS13950 WP 010873519.1
NTDB id	1028	TT RS08215 WP 011173991.1
NTDB id	1168	A1552VC RS11070 WP 000957200.1
NTDB id	1293	VP RS12240 WP 005479695.1
NTDB id	1401	DSB67 RS12665 WP 010643259.1
NTDB id	1110	NGFG RS09235 WP 003689817.1
NTDB id	1251	GC085 RS07725 WP 011946523.1
NTDB id	318450	D7A46 RS11035 WP 001274990.1
NTDB id	1058	ABD1 RS01615 WP 001274986.1
NTDB id	1018	ACIAD RS01685 WP 004920473.1
consensus		



561
819
493
492
492
488
505
501
501
501

logo

NTDB id	1410	SGL RS13950 WP 010873519.1
NTDB id	1028	TT RS08215 WP 011173991.1
NTDB id	1168	A1552VC RS11070 WP 000957200.1
NTDB id	1293	VP RS12240 WP 005479695.1
NTDB id	1401	DSB67 RS12665 WP 010643259.1
NTDB id	1110	NGFG RS09235 WP 003689817.1
NTDB id	1251	GC085 RS07725 WP 011946523.1
NTDB id	318450	D7A46 RS11035 WP 001274990.1
NTDB id	1058	ABD1 RS01615 WP 001274986.1
NTDB id	1018	ACIAD RS01685 WP 004920473.1
consensus		



641
889
562
561
561
558
574
570
570
570

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	KRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 318450 D7A46 RS11035 WP 001274990.1	.....	570
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved