

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSXLSIGDRRLGAALLDQGYLDNQLQRALERHSEVGGRLAEVLVDQGYSEERRIASTIESEFGIPLVNLHSEVETSPKXK	0
NTDB id 1306 DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL	79
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
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 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 70044 HPTL RS06550 WP 119335265.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
consensus		

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NTDB id 1410 SGL RS13950 WP 010873519.1	SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVP	0
NTDB id 1306 DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	157
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVP	158
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 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 70044 HPTL RS06550 WP 119335265.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
consensus		

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NTDB id 1410 SGL RS13950 WP 010873519.1	SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	0
NTDB id 1306 DR RS10060 WP 027479822.1	SGEGQKDLKLGELLQKGWISREALEEALVEQKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVDPDPSAA	237
NTDB id 1028 TT RS08215 WP 011173991.1	.....	237
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 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 70044 HPTL RS06550 WP 119335265.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1		0
NTDB id 1018 ACIAD RS01685 WP 004920473.1		0
consensus		

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NTDB id	1410	SGL RS13950 WP 010873519.1
NTDB id	1306	DR RS10060 WP 027479822.1
NTDB id	1028	TT RS08215 WP 011173991.1
NTDB id	1168	A1552VC RS11070 WP 000957200.1
NTDB id	1401	DSB67 RS12665 WP 010643259.1
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NTDB id	1058	ABD1 RS01615 WP 001274986.1
NTDB id	1018	ACIAD RS01685 WP 004920473.1
consensus		

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GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTL	317
LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
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NTDB id	1410	SGL RS13950 WP 010873519.1
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NTDB id	1058	ABD1 RS01615 WP 001274986.1
NTDB id	1018	ACIAD RS01685 WP 004920473.1
consensus		

SSSSKKSRAVALRNYFSPFGNKL	83
DQLREALQVQAREGKVKPLGEVITELGFASPD	388
EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGRL	388
.....MLTNLVAILRQAEILSATQEAVVTQVSASGTSVPEALL	57
.....MLTNLSTVLRQAGILTF	57
.....MHSNLSLTLRQKGLLTF	57
.....MALATEEYRLQGITGILLVLEKLLDKTKAIELHKLAAAEKISLLQYIV	65
.....MSVGLLRILVQNQVVTVEQAEHYNE	56
.....MNAKRHITGLMRALVHAGWVDEGLQ	62
.....MSALHTSPKFTGFFRRLVVEEKHVS	65
.....MSAFTTPPKFSGFIRRLVVEEGYVNAQNM	65

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NTDB id	1018	ACIAD RS01685 WP 004920473.1
consensus		

GVDSDVPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGF	161
GYEFLDPIQNPPD.....PKVALM	455
GYPYVDPEEDPPD.....PGAPLL	460
GLPETDLSRYDYA.....NLCQQLGLRELITRYDALPIAKQG	124
GLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRTS	124
GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRT	124
GVPMLDINCIDVG.....TIPVNLVNEKLIKRRHAMVPLFSRG	132
SYSILDLRHYPRH.....RVLMLGVLT	123
GIPILDLDAVDLD.....KIPKDLLDRELAFKHGVLPLSRRK	129
AEPYFDLDVYDTS.....QIPKDLVDQKLILK	132
GEPLLDLGVFDPA.....LFLKDKLIDEKLIQKYRIMPLVHRG	132

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NTDB id 1410	SGL RS13950 WP 010873519.1	VVTQDDFNQLLEQYAIREEWEAAQEKRDRERALDKLNDLTDIVGSLD.MNLGEDKEDVDNALDSNDA	NQAPVINLVNKI	240
NTDB id 1306	DR RS10060 WP 027479822.1	VMAEKDIIRLIERYFGEKGFEK.LN...KE...LA....ERNKTQQSQEADLSVA	DESAIVQVVDSEI	511
NTDB id 1028	TT RS08215 WP 011173991.1	VATEAAITKLIERFYGKAELSE.....IA...KE...FA....KKQAEEEV..PSPLEL	DESAAQKFVKQV	514
NTDB id 1168	A1552VC RS11070 WP 000957200.1	LADHRA LQAAIRRLYGRSIQGA.....ANQGKEISQDEL.ANLVKVS DDELQS	IEDLSQDDSPVSRFINQV	189
NTDB id 1401	DSB67 RS12665 WP 010643259.1	LADFRELTAAIRRLYGRSLGQE.....KSGLKEINQDEL.AGLVDIGIEIENIEDLSQ	DES PVSRYINQI	189
NTDB id 1293	VP RS12240 WP 005479695.1	LADFRELSTAIRRLYGRSLSHE.....KSGLKEINQEEL.ASLVDVGADEIDNI	IEDLSQDES PVSRYINQI	189
NTDB id 1251	GC085 RS07725 WP 011946523.1	VVETDKLSALIDNLLTAKESQG.....LSEYVEDSGDLEGLEISADDEDQDIDTATSVT	DDAPIVKFVNKI	198
NTDB id 1110	NGFG RS09235 WP 003689817.1	IVEDDQLAGLIDWVGSRSTS.L.....LQELGEG.....QE...EEESHTLY	IDNEEAEDGPVPRFIHKI	179
NTDB id 70044	HPTL RS06550 WP 119335265.1	VVPAKTLWRTLNEFFQSAAD.A.....LASLTDALDLS.AETIESSEDTAAST	LSDETI DDAPVVKFINKI	193
NTDB id 1058	ABD1 RS01615 WP 001274986.1	IVEHHKLEKVLGGHF AEES.....FDNFDEEFDL.D.VNLDGPTA.QEDEEAPQG	DEAPIVKYINKL	193
NTDB id 1018	ACIAD RS01685 WP 004920473.1	IVEHDKLERLLSEHFVEETH.....FNFDTEELDLD.VEVDPHTT.DDDDED	DKLK DEAPIVKYINKL	193
consensus		*** ** *	* ** *	

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NTDB id 1410	SGL RS13950 WP 010873519.1	LAKALQEGTSDIHVEPQEETLRIRFRKDGVLNCAFDP LPRKITPAVVARFKIMADMIAERRSPDQGKIRRIYQ..GRKV	318
NTDB id 1306	DR RS10060 WP 027479822.1	IREAALQDASDIHIETTEDAVKVRYRIDGALREQNS.FPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRF..KKGSIDL	588
NTDB id 1028	TT RS08215 WP 011173991.1	IREAFLLQDASDIHIIEPRQNNDVQVRLRIDGALRPYST.LPKGALNAVISVVVKIMGGLNIAEKRLPQDGRVRY..REGAIDV	591
NTDB id 1168	A1552VC RS11070 WP 000957200.1	LLDAVRKGASDIHFEPYENMYRIVRLRC DGLVETIQQ.PASHLSRRLARIAKILSKL DIAERRLPDGRIKRLRS.DTAI	267
NTDB id 1401	DSB67 RS12665 WP 010643259.1	LLDAVRKGASDIHFEPYENMYRIVRLRC DGLIETIQQ.PPSHLRRLSARIAKILSKL DIAERRLPDGRIKLKLNQ.DTAI	267
NTDB id 1293	VP RS12240 WP 005479695.1	LLDAVRKGASDIHFEPYEKM YRVRLRC DGLIETIQQ.PPNHLSRRLSARIAKILSKL DIAERRLPDGRIKLKLNQ.DTAI	267
NTDB id 1251	GC085 RS07725 WP 011946523.1	LLDAIRQGASDIHFEPYEREYRIRYRQDGLHEVAT.PPASLSSRITARIKVM SNLDISERRIPDGGF KMKISK.SRAI	276
NTDB id 1110	NGFG RS09235 WP 003689817.1	LSDALRSGASDIHFEFYEH NARIRFRVDGQLREV VQ.PPIAVRGQLASRIKVM S RLDISEKRIPDGDGMQLTFQKGGKPV	258
NTDB id 70044	HPTL RS06550 WP 119335265.1	LFDAINEGASDIHFEPYEKH YRIRFRADGVLEVAR.PPLTFKDKITARIKIMARLDISERRVPDGRIKLV LNR.QKAI	271
NTDB id 1058	ABD1 RS01615 WP 001274986.1	LIDAIRM GASDLHFEPYEKS YRVRYRV DGVLRLQIAN.PPLQLANRLARSRLKVM SQMDISEKRVPDGRIKLKL SKAI	271
NTDB id 1018	ACIAD RS01685 WP 004920473.1	LIDAIRMSASDLHFEPYEKS YRVRYRV DGVLRLIAT.PPLQLATRLARSRLKVM SQMDISEKRVPDGRIKLKL SKAI	271
consensus		****!* *!!!!!!** ***** !!!!!!* ****	

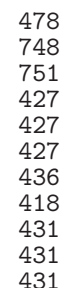
logo

NTDB	id	1410	SGL	RS13950	WP	010873519.1	D	F	R	V	N	T	L	P	S	R	Y	G	E	K	V	C	L	R	I	L	D	N	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	398																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	1306	DR	RS10060	WP	027479822.1	D	L	R	L	S	T	L	P	T	V	Y	G	E	K	A	V	M	R	L	L	Q	K	A	S	N	I	P	E	L	Q	L	G	F	S	E	Y	N	Y	A	R	Y	T	E	I	I	E	R	P	N	G	I	F	L	V	T	G	P	T	G	S	G	K	S	F	T	C	F	S	T	L	K	R	I	A	K	P	E	K	N	668																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	1028	TT	RS08215	WP	011173991.1	D	L	R	L	S	T	L	P	T	V	Y	G	E	K	A	V	M	R	L	L	K	K	A	S	D	I	P	E	T	D	L	G	F	A	P	G	V	F	E	R	F	K	E	V	I	S	K	P	Y	G	I	F	L	V	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	671																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	D	M	R	V	S	T	L	P	T	L	G	E	K	I	V	L	R	L	L	D	S	S	A	A	N	L	D	I	D	K	L	G	Y	N	P	Q	Q	K	L	Y	L	N	A	L	K	R	P	Q	G	M	I	L	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	R	I	L	N	T	S	Q	I	N	347																																																																																																																																																																																																																																																																																																																																																																																				
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	D	M	R	V	S	T	L	P	T	L	F	G	E	K	I	V	L	R	L	L	D	S	S	A	A	L	D	I	N	K	L	G	Y	S	D	S	Q	K	L	Y	L	D	A	L	R	P	Q	G	M	I	L	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	S	I	L	N	K	P	E	I	N	347																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	1293	VP	RS12240	WP	005479695.1	D	M	R	V	S	T	L	P	T	L	F	G	E	K	I	V	L	R	L	L	D	S	S	A	S	L	D	I	D	K	L	G	Y	S	E	Q	Q	K	L	Y	L	E	A	L	R	P	Q	G	M	I	L	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	N	I	L	N	K	P	E	I	N	347																																																																																																																																																																																																																																																																																																																																																																																					
NTDB	id	1251	GC085	RS07725	WP	011946523.1	D	F	R	V	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	356																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	D	F	R	V	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	I	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	338																																																																																																																																																																																																																																																																																																																																																																																				
NTDB	id	70044	HPTL	RS06550	WP	119335265.1	D	F	R	V	S	T	L	P	T	L	G	E	K	I	V	M	R	L	L	D	P	S	S	A	M	L	G	I	D	A	L	G	Y	E	P	D	Q	K	A	A	L	L	E	A	I	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	Q	P	D	V	N	351																																																																																																																																																																																																																																																																																																																																																																																			
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	D	F	R	V	N	S	L	P	T	L	F	G	E	K	I	V	L	R	I	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	V	S	L	T	G	L	N	I	L	N	T	E	S	S	N	351																																																																																																																																																																																																																																																																																																																																																																																		
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	D	F	R	V	N	S	L	P	T	L	F	G	E	K	I	V	L	R	I	L	D	P	S	S	A	M	L	G	I	D	A	L	G	Y	E	P	E	Q	K	A	L	F	M	E	A	L	N	D	K	P	Q	G	M	L	I	T	G	P	T	G	S	G	K	T	V	S	L	T	G	L	N	I	L	N	T	E	H	A	N	351																																																																																																																																																																																																																																																																																																																																																																																	
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consensus

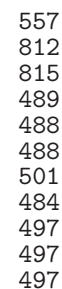
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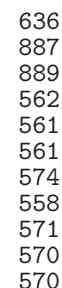
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NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 70044 HPTL RS06550 WP 119335265.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



logo

NTDB id 1410 SGL RS13950 WP 010873519.1	SEMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	561
NTDB id 1293 VP RS12240 WP 005479695.1	.....	561
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 70044 HPTL RS06550 WP 119335265.1	.....	571
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved