

logo

NTDB id 1410 SGL RS13950 WP 010873519.1	MSXLTIGDRRLGAALLDAGLLDQGYLQDRLQRALERHREVGGLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	0
NTDB id 1028 TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGS�AEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV	80
NTDB id 1306 DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL	79
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 58336 NMC34 RS03680 WP 022647056.1	.....	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 1410 SGL RS13950 WP 010873519.1	RYTETAKELRAFPFALBEEGRVAHYBPLBSEYEDBGFHYEPYQTEREYAAATAYHYPELGLLENNPSCX	0
NTDB id 1028 TT RS08215 WP 011173991.1	ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P	158
NTDB id 1306 DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPFALE..GDRRLVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	157
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 58336 NMC34 RS03680 WP 022647056.1	.....	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 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1384 A4U8A RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 58336 NMC34 RS03680 WP 022647056.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
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 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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[illegible]

NTDB	id	1410	SGL RS13950 WP 010873519.1	SSSSKKSRVAALRNYFSPFGNKL	VAGGHVDAEQLRQALVQVKKTGRSL	PPEELKAVTGREL	LSPELLRQYKKNQLFEL	KVLVY	83
NTDB	id	1028	TT RS08215 WP 011173991.1	EALKEALEVQKGLPRAKPLGEIL	VELGLARPEDVEEALQKQRGGGRL	EDTLVQ..SGKLRPEALAQA.....	VATQL	388	
NTDB	id	1306	DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEV	TETLGFASPDEVDLSALQKQNVGGRL	EDTLVQ..SGKLSPEMLARS.....	LAAQL	388	
NTDB	id	1384	A4U84 RS08525 WP 010787006.1	.....	.....	MSQ..YTI....CEQQ.....	TERIF	15	
NTDB	id	1366	NTHI RS01950 WP 011271972.1	.....	.....	MTS..YALLHTQRVTAQ.....	NGEIF	20	
NTDB	id	1355	HI 0298 AAC21962.1	.....	.....	MTS..YALLHTQRVTAK.....	NGEVF	20	
NTDB	id	58336	NMC34 RS03680 WP 022647056.1	.....	.....	.....	.....	0	
NTDB	id	1436	BW25113 RS00530 WP 001025145.1	.....	.....	.....	.....	0	
NTDB	id	1168	A1552VC RS11070 WP 000957200.1	MLTNLVAIL	LRQAE LISATQE QAVVTQVSASGTSL	VPEALLLE..LSIFHAQELTEQ.....	LSHIF	57	
NTDB	id	1401	DSB67 RS12665 WP 010643259.1	MLTNLSTVL	RQAGILTFSQEESLLEQVKASGISMP	EALLS..SGFFQSHELTEH.....	LSSVF	57	
NTDB	id	1293	VP RS12240 WP 005479695.1	MHSNLSTIL	RQKGLLTFSQEESLIEQVKASGISMP	EALLS..SGFFTSSSELAEH.....	LSSIF	57	
NTDB	id	1110	NGFG RS09235 WP 003689817.1	MSVGLLRL	LVQNQVVTV EQAEHY..NESQAGKEVL	PLM LFS..DGVISP KSLAAL.....	LARVF	56	
NTDB	id	1251	GC085 RS07725 WP 011946523.1	MALATEEYRLQGIGQL	LVLEKLLDKTKAIELHLKAAA EKISL	LQYIVK..NKILSAEQIALT.....	AAQNF	65	
NTDB	id	1018	ACIAD RS01685 WP 004920473.1	MSAFTTPPKFSGFIRRL	VEEGYVNAQNM QQALEKAKKFQKD	IVPYLID..NFSISPLTIAEI.....	ISLEF	65	
NTDB	id	1058	ABD1 RS01615 WP 001274986.1	MSALHTSPKFTGFRRRL	VEEKHVSAATMQ TALDAAKR AKQDT	VAYLIE..EVHLSPSL LAET.....	ISAEF	65	
consensus				*	*	*	*	*	*

NTDB	id	1410	SGL	RS13950	WP	010873519.1	G	V	D	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	Q	D	E	L	N	R	I	L	R	V	K	G	F	.	.	E	L	R	R	L		161		
NTDB	id	1028	TT	RS08215	WP	011173991.1	G	Y	P	Y	V	D	P	E	E	D	P	P	D	P	.	.	.	.	.	G	A	P	L	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		460
NTDB	id	1306	DR	RS10060	WP	027479822.1	G	Y	E	F	L	D	P	I	Q	M	P	P	D	P	.	.	.	.	.	K	V	A	L	M	I	P	E	A	T	A	R	R	Y	V	V	V	P	V	R	L	Q	G	.	.	.	N	S	L	V	V	A	M	K	D	P	R	N	V	F	A	L	D	D	L	K	L	I	T	G	.	.	.	.	.	K	E	I	L	P	A		455
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	W	Q	K	N	C	E	E	Q	L	L	L	R	Y	L	A	V	P	V	Q	E	T	.	.	.	H	K	L	W	L	A	V	D	D	E	N	N	L	T	A	C	E	I	F	A	F	M	T	H	.	.	.	.	.	K	Q	I	E	P	V		74			
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	L	L	L	R	Y	F	A	L	P	K	E	E	N	.	.	.	N	R	L	W	L	G	V	D	S	L	S	N	L	S	A	C	E	T	I	A	F	I	T	G	.	.	.	.	.	K	P	V	E	P	I		79											
NTDB	id	1355	HI	0298	AAC21962.1	T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	L	L	L	R	Y	F	A	L	P	K	E	E	N	.	.	.	N	R	L	W	L	G	V	D	S	L	S	N	L	S	A	C	E	T	I	A	F	I	T	G	.	.	.	.	.	K	P	V	E	P	I		79												
NTDB	id	58336	NMC34	RS03680	WP	022647056.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	M	N	T	E	Q	L	M	T	L	C	Q	R	H	H	A	L	L	A	S	D	T	.	.	.	E	M	T	S	I	A	V	V	G	N	P	A	S	E	L	M	E	A	L	R	F	A	T	Q	.	.	.	.	.	K	R	I	D	I	E		52			
NTDB	id	1436	BW25113	RS00530	WP	001025145.1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	M	N	I	P	Q	L	T	A	L	C	L	R	Y	H	G	V	L	L	D	A	S	E	.	.	.	E	V	V	H	V	A	V	D	A	P	S	H	E	L	D	A	L	H	F	A	T	T	.	.	.	.	.	K	R	I	E	I	T		52				
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	G	L	P	E	T	D	L	S	R	Y	D	Y	A	N	.	.	.	.	.	L	C	Q	Q	L	G	L	R	E	L	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	E	F	R	F	A	T	G	.	.	.	.	.	L	Q	V	E	L	A		124		
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	G	L	S																																																																															

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NTDB id 1410 SGL RS13950 WP 010873519.1	VVTQDDFNQLIEQYYAIREEWEEAAQEKRDQERALDKLNDLTDIVGSDIMNLGEDKDVDNALDSNDANQAPVINLVNKKIL	241
NTDB id 1028 TT RS08215 WP 011173991.1	VATEAAITTKLIERFYGKAELSEIAKEF.....A.....KKQAEEEV..PSPLELDESAAQKFVKQVI	515
NTDB id 1306 DR RS10060 WP 027479822.1	VMAEKDIIRLIERFYGKEGFEKLNKEL.....A.....ERNKTQSSQEADLSVADESATVQVVDSSI	512
NTDB id 1384 A4U84 RS08525 WP 010787006.1	VIASDELKYLINALSPEQQP.....IY.....EESELAFVEQEQEQLNLNDPTIQLLDNLF	125
NTDB id 1366 NTHI RS01950 WP 011271972.1	LLESSQLKELLQQLTPHQM.....VE.....EQVKFYQHqETHFEQEDDEPVIRLLNQIF	130
NTDB id 1355 HI 0298 AAC21962.1	LLESSQLKELLQQLTPNQMQ.....VE.....EQVKFYQHqETHFEQEDDEPVIRLLNQIF	130
NTDB id 58336 NMC34 RS03680 WP 022647056.1	CWTAERMEKRLQSLSSSH.....LP.....G.....IV...PNSAADVLSTTL	87
NTDB id 1436 BW25113 RS00530 WP 001025145.1	CWTRQQMEGHASRTQQ.T.....LP.....V.....AVQEKHQPKAELLTRTL	89
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LADHRAALQAAIRRLYGRSIQGAANQGKEISQ...DELA.....NL.....VKVSDDELQSIEDLSQDDSPVSRFINQVL	190
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LADFRELTAAIRRLYGRSLGQEKSGLKEINQ...DELA.....GL.....VDIGEDEIENIEDLSQDESPVSRFINQIL	190
NTDB id 1293 VP RS12240 WP 005479695.1	LADFRELSTAIRRLYGRSLSHEKSGLKEINQ...EELA.....SL.....VDVGAEIDNIEDLSQDESPVSRFINQIL	190
NTDB id 1110 NGFG RS09235 WP 003689817.1	IVEDDQLAGLLDWVGSRSTSL..LQEL.....G.....EG.....QEEEESTLYIDNEEAEDGPVPRFIHKTL	180
NTDB id 1251 GCO85 RS07725 WP 011946523.1	VVETDKLSALIDNLLTAKESQGLSEYVEDSG.DLEGLE.....IS.....AD.DEDQDIDTATSVTDDAPIVKFVNKIL	199
NTDB id 1018 ACIAD RS01685 WP 004920473.1	IVEHDKLERLLSEHFVEETHFNFDTE...EL.D...LD.....VE.....VDPHTTDDDDDDKLDKDEAPIVKYINKLL	194
NTDB id 1058 ABD1 RS01615 WP 001274986.1	IVEHHKLEKVLGQHFAEESSFDFNDE...EF.D...LD.....VN.....LDGPTAQEDEEEAPQGDDEAPIVKYINKLL	194
consensus	*** * ** *	

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NTDB id 1410 SGL RS13950 WP 010873519.1	AKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMEDIAERRSPQDGKIRRIYQ..GRKVD	319
NTDB id 1028 TT RS08215 WP 011173991.1	REAFQLQDASDIHIEPRQNDVQVRLRIDGALRPY.STLPKGALNAVIVSVKIMGGLNIAEKRLPQDGRVRYRE..GAIDVD	592
NTDB id 1306 DR RS10060 WP 027479822.1	REAAALQDASDIHIEETTEDAVKVRYRIDGALREQ.NSFPGKAAQIMARLKMIGHLDIAERRVPQDGRVRFKK..GSIDL	589
NTDB id 1384 A4U84 RS08525 WP 010787006.1	KFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLY.KSLSIQLASRLISRIKLLAKLDISELRQPQDGGQFSFTTAL.ADTLD	203
NTDB id 1366 NTHI RS01950 WP 011271972.1	ESALQKNASDIHLETLADQFQVRFRIDGVLQPQ.PLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTTF.SDILD	208
NTDB id 1355 HI 0298 AAC21962.1	ESALQKNASDIHLETLADQFQVRFRIDGVLQPQ.PLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTTF.SDILD	208
NTDB id 58336 NMC34 RS03680 WP 022647056.1	QQAVNQRASDIHIEPTEHGYYIRLRIDGVLYPQ.PPVSAALGTTLAARLKVLGQLDIAERRLPQDGGQFTVELA..SVPVS	164
NTDB id 1436 BW25113 RS00530 WP 001025145.1	QSALEQRASDIHIEPADNAYRIRLRIDGVLHPL.PDVSPDAGVALTARLKVLGNLDIAEHRLPQDGGQFTVELA..GNAV	166
NTDB id 1168 A1552VC RS11070 WP 000957200.1	LDAVRKGNASDIHFEPYENQYRIRLRCDGILVET.QQPASHLSRRLAARIKILSKLDIAERRLPQDGRITKLRLSR.DTAID	268
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LDAVRKGNASDIHFEPYENMYRVRLRCDGILIEI.QQPSSHLSRRLSARIKILSKLDIAERRLPQDGRITKLKLNQ.DTAID	268
NTDB id 1293 VP RS12240 WP 005479695.1	LDAVRKGNASDIHFEPYEKMYRVRLRCDGILIEI.QQPPIAVRGQLASRIKVMMSRLDISEKRIPQDGRMQLTFQKGGKPV	259
NTDB id 1110 NGFG RS09235 WP 003689817.1	SDALRSGASDIHFEPYEHNARIRFRVDGQLREV.VQPPIAVRGQLASRIKVMMSRLDISEKRIPQDGRMQLTFQKGGKPV	259
NTDB id 1251 GCO85 RS07725 WP 011946523.1	LDAIRQGNASDIHFEPYEREYRIRYRQDGLHEV.ATPPASLSSRITARIKVMMSNLDISERRIPQDGGFKMKISK.SRAID	277
NTDB id 1018 ACIAD RS01685 WP 004920473.1	IDAIRMSASDIHFEPYEKSYRVRYRVGVLRLI.ATPPLQLATRLASRLKVMMSQMDISEKRVPPQDGRITKLKMSK.SKITID	272
NTDB id 1058 ABD1 RS01615 WP 001274986.1	IDAIRMGASDLHFEPYEKSYRVRYRVGVLRLI.ANPPLQLANRLASRLKVMMSQMDISEKRVPPQDGRITKLKLSK.SKAID	272
consensus	*** *!?!?! *! * ****! !!!!!! * * ** *!?! *!?!?!?!?!***** **	

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 58336 NMC34 RS03680 WP 022647056.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
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 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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NTDB id 1410 SGL RS13950 WP 010873519.1	RLDEMGVEPFMVS	558
NTDB id 1028 TT RS08215 WP 011173991.1	RLDEMGVEPFNISA	816
NTDB id 1306 DR RS10060 WP 027479822.1	RLEEMGIENFNISA	813
NTDB id 1384 A4U84 RS08525 WP 010787006.1	RLQLGLGIQEYEIQ	400
NTDB id 1366 NTHI RS01950 WP 011271972.1	RLQQLGLGIQHEIEN	407
NTDB id 1355 HI 0298 AAC21962.1	RLQQLGLGIQQYEIK	407
NTDB id 58336 NMC34 RS03680 WP 022647056.1	RLQQMGMVARWMISS	383
NTDB id 1436 BW25113 RS00530 WP 001025145.1	RLQQMGMVARWMLSS	385
NTDB id 1168 A1552VC RS11070 WP 000957200.1	RLANMGVEPFNLIAS	490
NTDB id 1401 DSB67 RS12665 WP 010643259.1	RLSNMGVESFNLIAS	489
NTDB id 1293 VP RS12240 WP 005479695.1	RLSNMGVESFNLIAS	489
NTDB id 1110 NGFG RS09235 WP 003689817.1	RMLNMGVAPFNLIAS	485
NTDB id 1251 GCO85 RS07725 WP 011946523.1	RLVNMGITPTFNLIAS	502
NTDB id 1018 ACIAD RS01685 WP 004920473.1	RLRNMGVIASFNIAT	498
NTDB id 1058 ABD1 RS01615 WP 001274986.1	RLRNMGVPSFNIAT	498
consensus	!* **!* *** **** *****!!!!!!*!***! *	**

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NTDB id 1410 SGL RS13950 WP 010873519.1	QKCSGS	637
NTDB id 1028 TT RS08215 WP 011173991.1	ERC	889
NTDB id 1306 DR RS10060 WP 027479822.1	PRCGGT	887
NTDB id 1384 A4U84 RS08525 WP 010787006.1	DECY	461
NTDB id 1366 NTHI RS01950 WP 011271972.1	CDCH	464
NTDB id 1355 HI 0298 AAC21962.1	CDCH	464
NTDB id 58336 NMC34 RS03680 WP 022647056.1	ERCY	459
NTDB id 1436 BW25113 RS00530 WP 001025145.1	VHCY	461
NTDB id 1168 A1552VC RS11070 WP 000957200.1	NECT	562
NTDB id 1401 DSB67 RS12665 WP 010643259.1	NECT	561
NTDB id 1293 VP RS12240 WP 005479695.1	NECT	561
NTDB id 1110 NGFG RS09235 WP 003689817.1	DRCRGQ	558
NTDB id 1251 GCO85 RS07725 WP 011946523.1	EQCT	574
NTDB id 1018 ACIAD RS01685 WP 004920473.1	HDCR	570
NTDB id 1058 ABD1 RS01615 WP 001274986.1	LECR	570
consensus	! !*!!****** * * * * ** *	**

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NTDB id 1410 SGL RS13950 WP 010873519.1	EMRAKRRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1028 TT RS08215 WP 011173991.1	.....	889
NTDB id 1306 DR RS10060 WP 027479822.1	.....	887
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	461
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	464
NTDB id 1355 HI 0298 AAC21962.1	.....	464
NTDB id 58336 NMC34 RS03680 WP 022647056.1	.....	459
NTDB id 1436 BW25113 RS00530 WP 001025145.1	.....	461
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 1110 NGFG RS09235 WP 003689817.1	.....	558
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	570
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	570
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved