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NTDB id 1028	TT RS08215 WP 011173991.1	MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK	80
NTDB id 1306	DR RS10060 WP 027479822.1	.MALSIGDRRLGAILLDQGYLGDNLDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL	79
NTDB id 1410	SGL RS13950 WP 010873519.1	.....	0
NTDB id 1355	HI 0298 AAC21962.1	.....	0
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1468	ASU2 RS05090 WP 014991734.1	.....	0
NTDB id 77729	HY59 RS03450 WP 015585157.1	.....	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	GCO85 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 1306	DR RS10060 WP 027479822.1	RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA	157
NTDB id 1410	SGL RS13950 WP 010873519.1		0
NTDB id 1355	HI 0298 AAC21962.1		0
NTDB id 1366	NTHI RS01950 WP 011271972.1		0
NTDB id 1384	A4U84 RS08525 WP 010787006.1		0
NTDB id 1468	ASU2 RS05090 WP 014991734.1		0
NTDB id 77729	HY59 RS03450 WP 015585157.1		0
NTDB id 1436	BW25113 RS00530 WP 001025145.1		0
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NTDB id 1293	VP RS12240 WP 005479695.1		0
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NTDB id 1251	GCO85 RS07725 WP 011946523.1		0
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NTDB id 1058	ABD1 RS01615 WP 001274986.1		0
consensus			

NTDB	id	1028	TT	RS08215	WP	011173991.1	SGEGQKDLKLGLLELLQKGWISREALEEALVEQEKTDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA	237
NTDB	id	1306	DR	RS10060	WP	027479822.1	SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL	237
NTDB	id	1410	SGL	RS13950	WP	010873519.1	.....	0
NTDB	id	1355	HI	0298	AAC21962.1	.....	.....	0
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	.....	0
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	.....	0
NTDB	id	1468	ASU2	RS05090	WP	014991734.1	.....	0
NTDB	id	77729	HY59	RS03450	WP	015585157.1	.....	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								

NTDB	id	1028	TT	RS08215	WP	011173991.1	LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR	317
NTDB	id	1306	DR	RS10060	WP	027479822.1	GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSR	317
NTDB	id	1410	SGL	RS13950	WP	010873519.1	MTS	3
NTDB	id	1355	HI	0298	AAC21962.1			0
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NTDB	id	1468	ASU2	RS05090	WP	014991734.1		0
NTDB	id	77729	HY59	RS03450	WP	015585157.1		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	EALKEALEVQKGLPRAKPLGEI	LVELGLARPEDVEEALQKQRRGGGR	I	EDTLVQS..GKLRPEAL	AQA.....	VATQL	388				
NTDB id 1306	DR RS10060 WP 027479822.1	DQLREALQVQAREGKVKPLGEV	ITELGFASPDEVD	SALQKQNVGGGR	I	EDTLVQS..GKLSPEMLARS.....	LAAQL	388				
NTDB id 1410	SGL RS13950 WP 010873519.1	SSSSKKSRAVALRNYFSPFGNK	L	VAGGHVDAEQLRQALVQVKKTGRS	L	PEELKAVTGRELSPEL	IRQYKKNQLFEL	KVLY	83			
NTDB id 1355	HI 0298 AAC21962.1	.....	.....	.....	MTSY.....	ALLHTQRVTAQ.....	NGEVF	20				
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	.....	.....	MTSY.....	ALLHTQRVTAQ.....	NGEIF	20				
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	.....	.....	MSQY.....	T.....ICEQQ.....	TERIF	15				
NTDB id 1468	ASU2 RS05090 WP 014991734.1	.....	.....	.....	MQY.....	S.....VCDMN.....	SQQVF	14				
NTDB id 77729	HY59 RS03450 WP 015585157.1	.....	.....	.....	.....	.....	.....	0				
NTDB id 1436	BW25113 RS00530 WP 001025145.1	.....	.....	.....	.....	.....	.....	0				
NTDB id 1168	A1552VC RS11070 WP 000957200.1		MLTNLVAI	L	RQAE	LISATQEQAVVTQVSASGTS	V	PEALLLEL..SIFHAQELTEQ.....	L	SHIF	57	
NTDB id 1401	DSB67 RS12665 WP 010643259.1		MLTNLSTV	L	RQAGILTFSQEE	SLLQVKASGISM	PEALLSS..GFFQSHELTEH.....	L	SSVF	57		
NTDB id 1293	VP RS12240 WP 005479695.1		MHSNLSTI	L	RQKGLLTFSQEE	SLLQVKASGISM	PEALLSS..GFFTSSSLAEH.....	L	SSIF	57		
NTDB id 1110	NGFG RS09235 WP 003689817.1		MSVGLLRI	L	VQNQVVTVEQA	EHHY.NESQAGKEV	L	PLMFLSD..GVISP	PKSLAAL.....	I	ARVF	56
NTDB id 1251	GCO85 RS07725 WP 011946523.1		MALATEEYRLQGIGQL	L	VLEKLLDKTKAIELHKLAAAEKIS	LLQYIVKN..KILSAEQ	I	ALT.....	AAQNF	65		
NTDB id 1018	ACIAD RS01685 WP 004920473.1		MSAFTTPPKFSGFIRR	L	VEEGYVNAQNMQQA	LEKAKKFKQD	I	VPY	LIDN..FSISPLTIAEI.....	I	SLEF	65
NTDB id 1058	ABD1 RS01615 WP 001274986.1		MSALHTSPKFTGFFRR	L	VEEKHVSAATMQTALDAAKRAKQD	TVAYLIEE..VHLSPSL	L	AET.....	I	SAEF	65	
consensus			*		*	*	*	*	*	*	*	

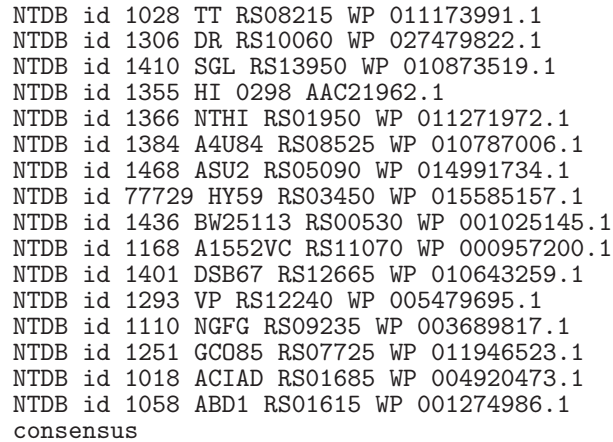
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NTDB id 1028	TT RS08215 WP 011173991.1	GYPYVDPEEDPP....DPGAPLLLPEDLCRRYGVFPHRLE...GNRLVL	LLMKDPRN	ILALDDVRLALKRKGL	NYEV	VAPA	460						
NTDB id 1306	DR RS10060 WP 027479822.1	GYEFLDPIQNPP....DPKVALMIPEATARRYVVVPVRLQ...GNSLV	VAMKDPRNV	FALDDLKLITG....KEILPA			455						
NTDB id 1410	SGL RS13950 WP 010873519.1	GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQ	QEGDPPSVLVAMVDP	DNLAAQDELNRILRVKG...FELRRL			161						
NTDB id 1355	HI 0298 AAC21962.1	T...ISP.....DLWERNQQQSL	LLRYFALPLKEE...NNRLWL	GVSDLSNLSACETIAF...ITG...KPVEPI			79						
NTDB id 1366	NTHI RS01950 WP 011271972.1	T...ISP.....DLWERNQQQSL	LLRYFALPLKEE...NNRLWL	GVSDLSNLSACETIAF...ITG...KPVEPI			79						
NTDB id 1384	A4U84 RS08525 WP 010787006.1	D...ISP.....SRWQKNCEEKQ	LLRLYLAVPVQET...EHKLWL	AVDDENNLTACEIFAF...MTH...KQIEPV			74						
NTDB id 1468	ASU2 RS05090 WP 014991734.1	D...ISE.....SLWQKNCEKH	LLRLYLAIPIQEN...DDTLWL	LAIDDMNNLSACEIFAF...IAH...KTIEPV			73						
NTDB id 77729	HY59 RS03450 WP 015585157.1	.....	MKTDR	LISLCQRHQ	ALLNSD...EQT	IATAVVDAPTPELMEALRF...ATQ...KRIDIE	52						
NTDB id 1436	BW25113 RS00530 WP 001025145.1	.....	MNIPQ	LTA	LCLRYHGVLLDAS...EEV	VHVAVVDAPSHELLDALHF...ATT...KRIEIT	52						
NTDB id 1168	A1552VC RS11070 WP 000957200.1	GLPETDLSRYDY.....ANLCQQLGLREL	I	TRYDALPIAKQ...GNL	LLAVSDPTLLQAE	EEFRF...ATG...LQVELA	124						
NTDB id 1401	DSB67 RS12665 WP 010643259.1	GLSCTSLNQYFY.....ASLCQTLGLRDL	I	TRHNALPLNRT...SST	LILAVADPTNLQAEDDFRF...ATG...LQVELV		124						
NTDB id 1293	VP RS12240 WP 005479695.1	GLSQPELSQYFY.....ASLCQQLGLREL	I	TRHNALPLHRT...PST	LLAVADPTNQQAEDDFRF...ATG...LQVELV		124						
NTDB id 1110	NGFG RS09235 WP 003689817.1	SYSILDLRHYPR.....HRVLMGVLTEE	QMV	EFHCVVFR...GDK	VFAVSDPTQMPQIQKTVS...AAG...IAVELV		123						
NTDB id 1251	GCO85 RS07725 WP 011946523.1	GVPMLDINCIDV.....GTIPVNLVNEK	L	IKRHAMVPLFSR...GTN	LYLATDPSKQASLKE	I	QF...HTG...LNTHAI	132					
NTDB id 1018	ACIAD RS01685 WP 004920473.1	GEPLLDLGVFDP.....ALFLKDKIDEK	L	IQKYRIMPLVHR...GHV	LYVATS	NPTNIEAMDAIRF...NSK...LKVEPI	132						
NTDB id 1058	ABD1 RS01615 WP 001274986.1	AEPYFDLDVYDT.....SQIPKDLVDQK	L	ILKHRI	LPLIQR...GQILY	VATS	NPSNIEAIDAIRF...NSK...LLVEPV	132					
consensus		*	*		**	*	*	*	*	*	*	*	*

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NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 77729 HY59 RS03450 WP 015585157.1
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 1028	TT RS08215 WP 011173991.1	RLDEMGEVFPNISAALIGVLSQRLVRRVCEHCKVEV.KPDPETLRRRLGLSE.....AEIQG..ARLY..KGMGC	816
NTDB id 1306	DR RS10060 WP 027479822.1	RLEEMGTIENFNISAAVMGVLAQRLVRRVCSECKQPT.NADPEVLRRRLGISE.....RDIRG..ANLM..RGTGC	813
NTDB id 1410	SGL RS13950 WP 010873519.1	RLDEMGEVFPFMVSGSLLGVLAQRLMRKVCTECRIAY.HPSKEELSRFGLSASGDEVVTFYKANSISPDEIHLARQKGNLC	558
NTDB id 1355	HI 0298 AAC21962.1	RLQQLGIIQQYEIKNSLLLVIAQRLVRKLCSCGGN.....LA	405
NTDB id 1366	NTHI RS01950 WP 011271972.1	RLQQLGIIQQHEIENSLLLVIAQRLVRKICPKCGGN.....LI	405
NTDB id 1384	A4U84 RS08525 WP 010787006.1	RLQLGLGIQEYEQNSLLLVIAQRLVRKLCCKKCGV.....GC	400
NTDB id 1468	ASU2 RS05090 WP 014991734.1	RLQLGLGIKEYEIKNSLQLTIAQRLLRKRCPCCGGK.....GC	400
NTDB id 77729	HY59 RS03450 WP 015585157.1	RLQQMGEVAGWMLSSALSLVIAQRLVRKLCVHCRRRETGKTMD.....IP.....RRLWPRPLPRW..QAVGC	385
NTDB id 1436	BW25113 RS00530 WP 001025145.1	RLQQMGEVARWMLSSALTLVIAQRLVRKLCPCRRQQGEPIH.....IP.....DNVWPSPLPHW..QAPGC	385
NTDB id 1168	A1552VC RS11070 WP 000957200.1	RLANMGVEVPFNLAASSLSLTIAQRLARRLCKHCKIAV.RPSALLQSQFAFQP.....NEIL....YEA..NAAGC	490
NTDB id 1401	DSB67 RS12665 WP 010643259.1	RLSNMGVESFNLAASSLSLTIAQRLARKLCPYCRQPQ.EPNSQLQH.IGIAN.....TEQI....FQA..NPDGC	489
NTDB id 1293	VP RS12240 WP 005479695.1	RLSNMGVESFNLAASSLSLTIAQRLARKLCPYCKQPQ.EHTVQLQH.LGIQT.....TDNI....FRA..NPDGC	489
NTDB id 1110	NGFG RS09235 WP 003689817.1	RMLNMGVAPFNIASSVSLTIAQRLRLRLCSSCKQEVERPSASALKEVGFTD.....EDLAK.DWKLY..RAVGC	485
NTDB id 1251	GCO85 RS07725 WP 011946523.1	RLVNMGITPTFNIASSVTLTIAQRLARKLCNQCKAVRDDFTNQGLIELGFKE.....ADLV..NLKLY..KAVGC	502
NTDB id 1018	ACIAD RS01685 WP 004920473.1	RLRNMGVASFNIAATSVNVLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTE.....EDLAQPEFQIF..EPVGC	498
NTDB id 1058	ABD1 RS01615 WP 001274986.1	RLRNMGVPSFNIAATSVNVLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTE.....QDLAHPDFRVF..QPVGC	498
consensus		!* ***! * * * * * * * * * * * * * * * * * *	

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NTDB id 1028	TT RS08215 WP 011173991.1	E..RCGGTGYKGRYAIHELLVVDDERTHAIVAGKSATBIKEIAR.RKGMKTLREDGLYKALQGITTLEEV LARTIE....	889
NTDB id 1306	DR RS10060 WP 027479822.1	P..RCGGTGYKGRMGIHELMMVDDSLRRTIGAGRPAAEIRDVALGESGLRSIRQDGLIEKALQGLTTLEEV LAVTAS....	887
NTDB id 1410	SGL RS13950 WP 010873519.1	Q..KCSGSGYKGRVGVYEVMRNSERTIAELINQGATTDRIKDCAV.EEGMITLLAYSLNLVQEGYTTLEEVERVTFDTGL	635
NTDB id 1355	HI 0298 AAC21962.1	NSCDCH.QGYRGRIGVYQFLHWQNN.....DY.....QTDfKNLRASGLEKVSQGITDEKEIERVLGKNL..	464
NTDB id 1366	NTHI RS01950 WP 011271972.1	NSCDCH.QGYRGRIGVYQFLHWQNN.....GY.....QTDfENLRASGLEKVSQGITDEKEIERVLGKNS..	464
NTDB id 1384	A4U84 RS08525 WP 010787006.1	D..ECY.QGYRGRIGVYQCLSR TAK.....KFDKQTA.YLDFSSLRESAKQKIEQQLTNETEVDRLVGYE...	461
NTDB id 1468	ASU2 RS05090 WP 014991734.1	D..NCY.HGYKGRGTGIYQLLAKQGK.....FFEKSTA.YLDYDNLRASAEQKLAANITTVDEVKRVLGDG...	461
NTDB id 77729	HY59 RS03450 WP 015585157.1	Q..HCY.HGYYGRQALFELLPVNAPTRQATARGPSALEIESLAR.EAGMMTLFESGCLAVEQGLTNLEETVRVLGIPHDR	461
NTDB id 1436	BW25113 RS00530 WP 001025145.1	V..HCY.HGFYGR TALFEVLPITPVIRQLISANTDVESLETHAR.QAGMRTL FENGCLAVEQGLTTFEELIRVLGMPHGE	461
NTDB id 1168	A1552VC RS11070 WP 000957200.1	N..ECT.GGYSGRVGIYEVMAFNTE LAEAIMQRASIHQIERLAK.ANGMQTLQESGLEKLR EGITSFAELQRVLYF....	562
NTDB id 1401	DSB67 RS12665 WP 010643259.1	N..ECT.HGYSGRGTGIYEVMMKFDES LSEALIKGASVHELEKLAI.ANGMQTLQMSGIEKLKQGITSFRELQRVLYF....	561
NTDB id 1293	VP RS12240 WP 005479695.1	N..ECT.HGYSGRGTGIYEVMMRFDES LSEALIKGASVHELEKLAI.ANGMSTLQMSGIEKLKQGITSFSELQRVLYF....	561
NTDB id 1110	NGFG RS09235 WP 003689817.1	D..RCRGQGYKGRAGVYEVMPISEEMQRVIMNNGTEVGI LDVAY.KEGMVDLRRAGILKIMQGITSLEEV TANTND....	558
NTDB id 1251	GCO85 RS07725 WP 011946523.1	E..QCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLTIFQSGIEKVKEGITTIEEVNRVTVD....	574
NTDB id 1018	ACIAD RS01685 WP 004920473.1	H..DCR.EGYKGRVGIYEVMKITPEISKIIMEDGNAL EIAATAE.TLGFNNLRRSGLKKVMQGVTSLQEINRVTSE....	570
NTDB id 1058	ABD1 RS01615 WP 001274986.1	L..ECR.EGYKGRVGIYEVMMKVTPEISKIIMEDGNAL EIAAAASE.KLGFNNLRRSGLKKVMQGVTSLQEIVNRVTSE....	570
consensus		! ! * * * ! * * * * * * * * * * * * * * * * * *	

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NTDB id 1028 TT RS08215 WP 011173991.1		889
NTDB id 1306 DR RS10060 WP 027479822.1		887
NTDB id 1410 SGL RS13950 WP 010873519.1	ESEMRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1355 HI 0298 AAC21962.1	.....	464
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	464
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	461
NTDB id 1468 ASU2 RS05090 WP 014991734.1		461
NTDB id 77729 HY59 RS03450 WP 015585157.1		461
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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 GCO85 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