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NTDB id 1410	SGL RS13950 WP 010873519.1	MTSSSSSSKKSRAVALRNYFSPFGNKL	VAGGHVDAEQLRQALIVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELK	80
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	.....MSQYT...I.....CEQQ.TERIFD..	16
NTDB id 1355	HI 0298 AAC21962.1	.....	.....MTSYA..LLHTQRVTAQ.NGEVFT..	21
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	.....MTSYA..LLHTQRVTAQ.NGEIFT..	21
NTDB id 1168	A1552VC RS11070 WP 000957200.1	.....	.....MLTNLVAIIRQAELISATQEQAVVTQVSASGTSVPEALLELS..IFHAQELTEQ.LSHIFGLP	60
NTDB id 1293	VP RS12240 WP 005479695.1	.....	.....MHSNLSLTIIRQKGLITFSQEESLIEQVKASGISMPEALLSSG..FFTSSSELAEH.LSSIFGLS	60
NTDB id 1401	DSB67 RS12665 WP 010643259.1	.....	.....MLTNLSTVLRQAGILITFSQEESLLEQVKASGISMPEALLSSG..FFQSHELTEH.LSSVFGLS	60
NTDB id 1110	NGFG RS09235 WP 003689817.1	.....	.....MSVGLLRILVNQNVVTVEQAEHYH.NESQAGKEVLPMFLSDG..VISPKSLAAL.IARVFSYS	59
NTDB id 1251	GC085 RS07725 WP 011946523.1	.....	.....MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNK..ILSAEQIALT.AAQNFGVP	68
NTDB id 1018	ACIAD RS01685 WP 004920473.1	.....	.....MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNF..SISPLTIAEI.ISLEFGEP	68
NTDB id 1058	ABD1 RS01615 WP 001274986.1		MSALHTSPKFTGFFRRILVEEKHVSAATMQTALDAAKRAKQDTVAYLIEEV..HLSPSLIAET.ISAEFAEP	68
consensus		* * * * *		* ** *** *

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NTDB id 1410	SGL RS13950 WP 010873519.1	VLYGVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGFELRR	160
NTDB id 1384	A4U84 RS08525 WP 010787006.1	ISPSRWQK.NCEEKQLL.....LRYLAVPVQETE...HKLWLAVDDENNLTACEIFA...FMTHKQIEP	73
NTDB id 1355	HI 0298 AAC21962.1	ISPDWLER.NQQQSSLL.....LRYFALPLKEEN...NRLWLGVDSLSNLSACETIA...FITGKPVEP	78
NTDB id 1366	NTHI RS01950 WP 011271972.1	ISPDWLER.NQQQSSLL.....LRYFALPLKEEN...NRLWLGVDSLSNLSACETIA...FITGKPVEP	78
NTDB id 1168	A1552VC RS11070 WP 000957200.1	E.TDLSRYDYANICQ.QLGLRELI.....TRYDALPTIAKQG...NLILLAVSDPTILLQAEFEFR...FATGLQVEL	123
NTDB id 1293	VP RS12240 WP 005479695.1	Q.PELSQEYASLCQ.QLGLRELI.....TRHNALPLHRT...STLLAVADPTNQQAEDDFR...FATGLQVEL	123
NTDB id 1401	DSB67 RS12665 WP 010643259.1	C.TSLNQEYASLCQ.TLGLRDLI.....TRHNALPLNRTS...STLLAVADPTNLQAEDDFR...FATGLQVEL	123
NTDB id 1110	NGFG RS09235 WP 003689817.1	I.LDLRHYPHRVLM.GVLTEEQM.....VEFHCVPVFRRG...DKVFFAVSDPTQMPQIKTV...SAAGIAVEL	122
NTDB id 1251	GC085 RS07725 WP 011946523.1	M.LDINCIDVGTIPV.NLVNEKLI.....KRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQ...FHTGLNTHA	131
NTDB id 1018	ACIAD RS01685 WP 004920473.1	L.LDLGVFDPALFLK.DKIDEKLI.....QKYRIMPLVHRG...HVLVYATSNPTNIEAMDAR...FNSKLLKVEP	131
NTDB id 1058	ABD1 RS01615 WP 001274986.1	Y.FDLDVYDTSQIPK.DLVDQKLI.....LKHRIPLLIQRG...QILYVATSNPSNIEAIDAR...FNSKLLVEP	131
consensus		*** ** *	*** **!* ***** ** *

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NTDB id 1410	SGL RS13950 WP 010873519.1	LVVTQDDFNQLLEQYIAIREEWFAAQEKRDQERALDKLNDLTDIVGSLDMNLGEDKEDVDNALDSNDANQAPVINLVNKI	240
NTDB id 1384	A4U84 RS08525 WP 010787006.1	VVIASDELKYLLNALSPSEQQPIYE.....ESELAFVEQEQEQLNLNDPIIQLLDNL	124
NTDB id 1355	HI 0298 AAC21962.1	ILLESSQLKELLQQLTPNQMQVEE.....QVKFYQHQETHFEQEDDEPVIIRLLNQI	129
NTDB id 1366	NTHI RS01950 WP 011271972.1	ILLESSQLKELLQQLTPHQMQVEE.....QVKFYQHQETHFEQEDDEPVIIRLLNQI	129
NTDB id 1168	A1552VC RS11070 WP 000957200.1	ALADHRAALQAAIRRLYGRSIQGAANQGK..E.ISQDELAN.....LV.....KVSDDDELQSIEDLSQDSDPVSRIINQV	189
NTDB id 1293	VP RS12240 WP 005479695.1	VLADFRELSTAIRRLYGRSLSHKESGLK..E.INQEELAS.....LV.....DVGAEIDNIEDLSQDSDPVSRIINQI	189
NTDB id 1401	DSB67 RS12665 WP 010643259.1	VLADFRELTAAIRRLYGRSLGQEKESGLK..E.INQDELAG.....LV.....DIGEDEIENIEDLSQDSDPVSRIINQI	189
NTDB id 1110	NGFG RS09235 WP 003689817.1	VIVEDDQLAGLLDWVGRSRSTSL..LQEL.....GE.....GQ.....EEEESHTLYIDNEEAEDGPVPRFIHKT	179
NTDB id 1251	GC085 RS07725 WP 011946523.1	IVVETDKLSALIDNLLTAKESQGLSEYVEDS.GDLEGLEI.....SA.....D.DEDQDIDTATSVTDDAPIVKFVNKI	198
NTDB id 1018	ACIAD RS01685 WP 004920473.1	IIVEHDKLERLLSEHFVEETHFNFDTE...E.LD...LDV.....EV.....DPHTTDDDDDEDKCLKDEAPIVKYINKL	193
NTDB id 1058	ABD1 RS01615 WP 001274986.1	VIVEHHKLEKVLGQHFAEESSFDNFDE...E.FD...LDV.....NL.....DGPTAQEDEEAPQGDEAPIVKYINKL	193
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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	L	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	1384	A4U84	RS08525	WP	010787006.1	D	F	R	V	S	S	L	P	T	I	Y	G	E	K	L	V	L	R	L	Q	K	N	K	P	T	S	F	D	F	L	Q	L	G	F	N	P	Q	Q	Q	T	T	L	N	A	L	K	Q	P	Q	G	L	I	L	V	T	G	P	T	G	S	G	K	S	I	T	L	Y	S	A	L	N	Y	L	N	Q	M	D	K	H	282	
NTDB	id	1355	HI	0298	AA	C21962.1	D	F	R	I	S	T	L	P	T	H	W	G	E	K	I	V	L	R	A	Q	N	K	P	V	E	L	S	F	S	E	L	G	M	T	E	N	Q	Q	Q	A	F	Q	R	V	L	S	Q	P	Q	G	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	287	
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	D	F	R	I	S	T	L	P	T	H	W	G	E	K	I	V	L	R	A	Q	N	K	P	V	E	L	S	F	A	E	L	G	M	T	E	N	Q	Q	Q	A	F	Q	R	S	L	S	Q	P	Q	G	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	287	
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	D	M	R	V	S	T	L	P	T	L	W	G	E	K	I	V	L	R	L	D	S	S	A	A	L	D	I	D	K	L	G	Y	N	P	Q	Q	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	Y	T	C	L	N	I	L	N	S	Q	I	N	347				
NTDB	id	1293	VP	RS12240	WP	005479695.1	D	M	R	V	S	T	L	P	T	L	E	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	L	Y	L	E	A	L	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	C	L	N	I	L	N	K	P	E	I	N	347				
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	D	M	R	V	S	T	L	P	T	L	E	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	K	L	Y	L	D	A	L	R	R	P	Q	G	M	I	L	M	T	G	P	T	G	S	G	K	T	V	S	L	Y	T	C	L	S	I	L	N	K	P	E	I	N	347			
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	D	F	R	V	S	T	L	P	T	L	E	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	Y	T	C	L	N	I	L	N	T	E	S	V	N	338			
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																																		

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NTDB id 1410	SGL RS13950 WP 010873519.1	ARLDEMGVEPFMVSGSLLGVIAQRLMRKVCTECRIAY.HPSKEELSRFGLSASGDEVVTFYKANSLSLPDEIHLARQKGNL	557
NTDB id 1384	A4U84 RS08525 WP 010787006.1	ERLLQLGIQEYEIQNSLLLVIAQRLVRKLCKKCRGVG.....C.	400
NTDB id 1355	HI 0298 AAC21962.1	SRLQQLGIQQYEIKNSLLLVIAQRLVRKLCSKCGGNL.....AN	406
NTDB id 1366	NTHI RS01950 WP 011271972.1	SRLQQLGIQQHEIENSLLLVIQRLVRKICPKCGGNL.....IN	406
NTDB id 1168	A1552VC RS11070 WP 000957200.1	IRLANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAV.RPSALLQSQFAFQPNIEIL....Y.....EANAAG	489
NTDB id 1293	VP RS12240 WP 005479695.1	IRLSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQ.EHTVQL.QHLGIQTTDNI....F.....RANPDG	488
NTDB id 1401	DSB67 RS12665 WP 010643259.1	IRLSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQ.EPNSQL.QHIGIANTEQI....F.....QANPDG	488
NTDB id 1110	NGFG RS09235 WP 003689817.1	SRMLNMGVAPFNIASSVSLIIAQRLRLRLCSSCKQEVERPSASALKEVGFTDEDLAK.DWK.....LYRAVG	484
NTDB id 1251	GC085 RS07725 WP 011946523.1	NRLVNMGIPTFNIASSVTLIIAQRLARKLCNCKAVRDDFTNQGLIELGFKEADLV..NLK.....LYKAVG	501
NTDB id 1018	ACIAD RS01685 WP 004920473.1	TRLRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDLAQPEFQ.....IFEPVG	497
NTDB id 1058	ABD1 RS01615 WP 001274986.1	TRLRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDLAHPDFR.....VFQPVG	497
consensus		!* **!* *****! *!!!!!!*!!*! *! * * *	

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NTDB id 1410	SGL RS13950 WP 010873519.1	CQKCSGSQYKGRVGVYEVMRNSERTIAELINQGATTDRIKDCAVEEGMITLLAYSLNLVQEGYTTLEEVEVTVFTDTGLES	637
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.DECY.QGYRGRIGVYQCLSRITAK.....KFDKQTAYLDFSSILRESAKQKIEQQLTNETEVDRVLGYE.....	461
NTDB id 1355	HI 0298 AAC21962.1	SCDCH.QGYRGRIGVYQFLHWQQN.....DY.....QTDfKNLRASGLEKVSQGITDEKEIERVLGKNL....	464
NTDB id 1366	NTHI RS01950 WP 011271972.1	SCDCH.QGYRGRIGVYQFLHWQQN.....GY.....QTDfENLRASGLEKVSQGITDEKEIERVLGKNS....	464
NTDB id 1168	A1552VC RS11070 WP 000957200.1	CNECT.GGYSGRVGIYEVMAFNTEIAEAIMQRASIHQIERLAKANGMQLQESGLEKIREGITSFAELQRVLYF.....	562
NTDB id 1293	VP RS12240 WP 005479695.1	CNECT.HGYSGRGTGIYEVMRFDSESLSEALIKGASVHELEKLAIANGMSTLQMSGIEKLKQGITSFSELQRVLYF.....	561
NTDB id 1401	DSB67 RS12665 WP 010643259.1	CNECT.HGYSGRGTGIYEVMMKFDESLSSEALIKGASVHELEKLAIANGMQLQMSGIEKLKQGITSFRELQRVLYF.....	561
NTDB id 1110	NGFG RS09235 WP 003689817.1	CDRCRGGYKGRAGVYEVMPISSEEMQVRVIMNNGTEVGIILDVAYKEGMVDLRRAGILKIMQGITSLEEVNTANTND.....	558
NTDB id 1251	GC085 RS07725 WP 011946523.1	CEQCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQSEGMLTIFQSGIEKVKEGITTIEEVNRTVTD.....	574
NTDB id 1018	ACIAD RS01685 WP 004920473.1	CHDCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALIEIAATAETLGFNNLRRSGLKKVMQGVTSLQEIINRVITSE.....	570
NTDB id 1058	ABD1 RS01615 WP 001274986.1	CLECR.EGYKGRVGIYEVMMKVITPEISKIIMEDGNALIEIAAASEKLGFNNLRRSGLKKVMQGVTSLQEVNRTVITSE.....	570
consensus		* *! !!!!!!!***** * * ** * ** * ** * ** * ** * ** *! * !*****	

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NTDB id 1410	SGL RS13950 WP 010873519.1	EMRAKRKSALTCTRTCAAELQQEWLDCPYCMTSRFS	672
NTDB id 1384	A4U84 RS08525 WP 010787006.1	.....	461
NTDB id 1355	HI 0298 AAC21962.1	.....	464
NTDB id 1366	NTHI RS01950 WP 011271972.1	.....	464
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 1018	ACIAD RS01685 WP 004920473.1	.....	570
NTDB id 1058	ABD1 RS01615 WP 001274986.1	.....	570
consensus			

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved