

logo

	MEAIIEKIKYK...IIVICTGLGLLVGGFFLLKPAPT...PVKETNLQAEVVAISKDSS...TEKDV	
NTDB id 1272 LPP RS04360 WP 010946546.1	.....	0
NTDB id 1249 GC085 RS04230 WP 010946546.1	.....	0
NTDB id 300 STER RS07485 WP 011681496.1	MKEKILAYVKDNR..LFVSVIAVLMVIFCFFLWMTCGAGNSMEAETSYTDVTALSTSSSKQSSQSLSEASS	69
NTDB id 595 KW2 RS08725 WP 021037687.1	MEKILDKLKEYW..KIMLLVVCALIAGGIFYIFTNSPK.PAETLSVEN..LSSS..ST.....KSSVS	56
NTDB id 521 SMSK321 RS04960 WP 000443804.1	MESIIEKIKYK..IIVICTGLGLLVGGFFLLKPAPHT.PVKETNLQAEVVAISKDSS.....TEKDV	60
NTDB id 493 SM12261 RS04300 WP 000387351.1	MEAIIEKIKYK..IIVICTGLGLLVGGFFLLKPAPQT.PVKETNLQAEVVAVSKDSV.....SEKEV	60
NTDB id 153 SP RS04730 WP 000387344.1	MEAIIEKIKYK..IIVICTGLGLLVGGFFLLKPAPQT.PVKETNLQAEVAAVSKDSS.....TEKEV	60
NTDB id 263 KZH43 RS04195 WP 000387330.1	MEAIIEKIKYK..IIVICTGLGLLVGGFFLLKPAPQT.PVKETNLQAEVAAVSKDLV.....SEKEV	60
NTDB id 222 SPD RS04535 WP 000387330.1	MEAIIEKIKYK..IIVICTGLGLLVGGFFLLKPAPQT.PVKETNLQAEVAAVSKDLV.....SEKEV	60
NTDB id 188 SPR RS04295 WP 000387330.1	MEAIIEKIKYK..IIVICTGLGLLVGGFFLLKPAPQT.PVKETNLQAEVAAVSKDLV.....SEKEV	60
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150 A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1294 VP RS04495 WP 021449594.1	.....	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 1362 HI 1008 AAC22669.1	.....	0
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 613 LCA RS05340 WP 231952379.1	MMWQDYWQRYRRFWVPCLVLLGIIAGGFYWHQSQQKQKV....TQNEQL.LAT.....SA.SKTKPA	57
NTDB id 36 MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFTLQWKLYI...ISAVVLIMVLIGFIFWRQDDYTSRN...FENKDNALKQSTSENSSL.SKVEDV	71
NTDB id 20 SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFTLQWKLYI...ISAVVLIMVLIGFIFWRQDDYTSRN...FENKDTALKQSTSENNSL.SKLEDV	71
NTDB id 105 BSU 25590 NP 390437.1	MNWLNQHKKAI....ILAASAAVFTAIMIFLATG....KN....KE....PVKQAVPT.....ETENTV	48
NTDB id 1127 NGFG RS10560 WP 003703428.1	.....	0
NTDB id 1126 NGFG RS09375 WP 003703428.1	.....	0
NTDB id 1125 NGFG RS07215 WP 003703428.1	.....	0
NTDB id 1108 NGFG RS06525 WP 003703428.1	.....	0
NTDB id 349872 A0073 RS00325 WP 082200224.1	.....	0
NTDB id 1242 Cj0011c YP 002343483.1	.....	0
consensus		

NTDB id 1272 LPP RS04360 WP 010946546.1
NTDB id 1249 GC085 RS04230 WP 010946546.1
NTDB id 300 STER RS07485 WP 011681496.1
NTDB id 595 KW2 RS08725 WP 021037687.1
NTDB id 521 SMSK321 RS04960 WP 000443804.1
NTDB id 493 SM12261 RS04300 WP 000387351.1
NTDB id 153 SP RS04730 WP 000387344.1
NTDB id 263 KZH43 RS04195 WP 000387330.1
NTDB id 222 SPD RS04535 WP 000387330.1
NTDB id 188 SPR RS04295 WP 000387330.1
NTDB id 1159 ABDM36 RS04765 WP 001166105.1
NTDB id 1150 A1552VC RS08580 WP 001166105.1
NTDB id 1294 VP RS04495 WP 021449594.1
NTDB id 1382 A4U84 RS07375 WP 062924234.1
NTDB id 1362 HI 1008 AAC22669.1
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NTDB id 613 LCA RS05340 WP 231952379.1
NTDB id 36 MW RS08230 WP 001793467.1
NTDB id 20 SA RS08005 WP 001802022.1
NTDB id 105 BSU 25590 NP 390437.1
NTDB id 1127 NGFG RS10560 WP 003703428.1
NTDB id 1126 NGFG RS09375 WP 003703428.1
NTDB id 1125 NGFG RS07215 WP 003703428.1
NTDB id 1108 NGFG RS06525 WP 003703428.1
NTDB id 349872 A0073 RS00325 WP 082200224.1
NTDB id 1242 Cj0011c YP 002343483.1
consensus

[illegible]

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NTDB id 1272 LPP RS04360 WP 010946546.1	NEPQ.....K..TPAKQVLVKGKINLNTADVYSLTGSFKGIGKKRAEAIITAYRENHQGFKSLEE	79
NTDB id 1249 GC085 RS04230 WP 010946546.1	NEPQ.....K..TPAKQVLVKGKINLNTADVYSLTGSFKGIGKKRAEAIITAYRENHQGFKSLEE	79
NTDB id 300 STER RS07485 WP 011681496.1	SVLDQTGTGQ.....V.SD..KGGQAVSKDGKINLNTATSEQL.QTISGIGAKRAEDVIAYRESHGGFQSVDD	209
NTDB id 595 KW2 RS08725 WP 021037687.1	SSE.STDSPT.....GSSV..SNQISTTSGPKVNINKADLTTEL.QKLTGIGQKKAQDIIDFRMKNQDFKSIED	196
NTDB id 521 SMSK321 RS04960 WP 000443804.1	ASQ.HTGSGA.....P.....SSTSCKDKKINLNKASLEEL.KQVKGLGGKRAQDIIDHREANGKFKSVDE	194
NTDB id 493 SM12261 RS04300 WP 000387351.1	ASQ.QAGPGT.....A.....SSTSKEKKVNLNKASLEEL.KQVKGLGGKRAQDIIDHREANGKFKSVDE	194
NTDB id 153 SP RS04730 WP 000387344.1	VSQ.QTSGGT.....A.....SSTSKEKKVNLNKASLEEL.KQVKGLGGKRAQDIIDHREANGKFKSVDE	194
NTDB id 263 KZH43 RS04195 WP 000387330.1	VSQ.QTGLGT.....A.....SSISKEKKVNLNKASLEEL.KQVKGLGGKRAQDIIDHREANGKFKSVDE	194
NTDB id 222 SPD RS04535 WP 000387330.1	VSQ.QTGLGT.....A.....SSISKEKKVNLNKASLEEL.KQVKGLGGKRAQDIIDHREANGKFKSVDE	194
NTDB id 188 SPR RS04295 WP 000387330.1	VSQ.QTGLGT.....A.....SSISKEKKVNLNKASLEEL.KQVKGLGGKRAQDIIDHREANGKFKSVDE	194
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	APAA.....QVEEGIVITVNINTASAEELATLLKGIGLKKAAQAIVDYREANGPFTHIDD	82
NTDB id 1150 A1552VC RS08580 WP 001166105.1	APAA.....QVEEGIVITVNINTASAEELATLLKGIGLKKAAQAIVDYREANGPFTHIDD	82
NTDB id 1294 VP RS04495 WP 021449594.1	.TKA.....DKYEGIEITVNINTASAEETATMLKGIGEKKAQSIVDYRTEHGFPKTAAD	73
NTDB id 1382 A4U84 RS07375 WP 062924234.1	VTTSTEHTPV.....VMQQ.VAATQKVNANVNVNINTATASEIQDKLVGIGAKKAQAIVEYREKNGKFLNVEQ	91
NTDB id 1362 HI 1008 AAC22669.1	ATXQTAQSVV.....TTQAEAQVAPAVVSDKLNINTATASEIQKSLTGIGAKKAQAEIVQYREKHGNGFXNAEQ	91
NTDB id 1069 ABD1 RS03060 WP 043960841.1	VKQQMYDQKLNIS...KSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFQ.QLKGIGEKKAQAIVEYRQKNGSFKNIDE	115
NTDB id 613 LCA RS05340 WP 231952379.1	TDQELIQAPQIATTSTERTQEASTGTSANASSTSDTAKIDLNQADSTQLQ.TLNGIGPKKAEQIITAYRDEQGGKFKQIED	213
NTDB id 36 MW RS08230 WP 001793467.1	VEPQIGVNSV.....HVKNGNTNNTKVNLTASVSELM.SVPGVGQAKANAIVEYRNQQGAFQEIDD	207
NTDB id 20 SA RS08005 WP 001802022.1	VEPQIEVNSV.....HVKNGNTNNTKVNLTASVSELM.SVPGVGQAKANAIVEYRNQQGAFQEIDD	207
NTDB id 105 BSU 25590 NP 390437.1	AVQQGGGGSV.....QS..DGGKGALVNINTATLEELQ.GISGVGPSKAEAITAYREENGRFQTIED	183
NTDB id 1127 NGFG RS10560 WP 003703428.1	KKMFVLFCLM.....FS..CAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDD	92
NTDB id 1126 NGFG RS09375 WP 003703428.1	KKMFVLFCLM.....FS..CAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDD	92
NTDB id 1125 NGFG RS07215 WP 003703428.1	KKMFVLFCLM.....FS..CAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDD	92
NTDB id 1108 NGFG RS06525 WP 003703428.1	KKMFVLFCLM.....FS..CAFSLAAVNINAASQQELE.ALPGIGPAKAKAIAEYRAQNGAFKSVDD	92
NTDB id 349872 A0073 RS00325 WP 082200224.1	KKIV..FLMF.....AL..ASFLFAAVNLTATLEELK.SLKGIGATKAQAILDYRKE.QNFTSIEE	57
NTDB id 1242 Cj0011c YP 002343483.1	KKLL..FLFF.....AL..TAFLFGAVNINTATLKLKELK.SLNGIGEAKAKAILEYRKE.ANFTSIDD	57
consensus	***! !* ** * !*! **! ***** ** ! ****	

logo

NTDB id 1272 LPP RS04360 WP 010946546.1	LA	E	V	K	G	I	G	Q	R	F	V	D	K	N	R	E	K	I	K	E	I	F	V	I	N		105													
NTDB id 1249 GC085 RS04230 WP 010946546.1	LA	E	V	K	G	I	G	Q	R	F	V	D	K	N	R	E	K	I	K	E	I	F	V	I	N		105													
NTDB id 300 STER RS07485 WP 011681496.1	L	K	N	V	S	G	I	G	D	K	T	L	D	K	I	R	E	S	L	Y	V	A	.....	.....	231															
NTDB id 595 KW2 RS08725 WP 021037687.1	L	G	K	V	S	G	F	G	D	K	T	L	E	K	L	K	D	E	I	S	I	D	.....	.....	218															
NTDB id 521 SMSK321 RS04960 WP 000443804.1	L	K	K	V	S	G	I	G	A	K	T	I	E	K	L	K	D	Y	V	T	V	D	.....	.....	216															
NTDB id 493 SM12261 RS04300 WP 000387351.1	L	K	K	V	S	G	I	G	A	K	T	I	E	K	L	K	D	Y	V	T	V	D	.....	.....	216															
NTDB id 153 SP RS04730 WP 000387344.1	L	K	K	V	S	G	I	G	G	K	T	I	E	K	L	K	D	Y	V	T	V	D	.....	.....	216															
NTDB id 263 KZH43 RS04195 WP 000387330.1	L	K	K	V	S	G	I	G	G	K	T	I	E	K	L	K	D	Y	V	T	V	D	.....	.....	216															
NTDB id 222 SPD RS04535 WP 000387330.1	L	K	K	V	S	G	I	G	G	K	T	I	E	K	L	K	D	Y	V	T	V	D	.....	.....	216															
NTDB id 188 SPR RS04295 WP 000387330.1	L	K	K	V	S	G	I	G	G	K	T	I	E	K	L	K	D	Y	V	T	V	D	.....	.....	216															
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	L	T	N	V	K	G	I	G	E	A	T	V	R	N	N	A	A	R	I	L	L	.....	.....	103																
NTDB id 1150 A1552VC RS08580 WP 001166105.1	L	T	N	V	K	G	I	G	E	A	T	V	R	N	N	A	A	R	I	L	L	.....	.....	103																
NTDB id 1294 VP RS04495 WP 021449594.1	L	T	N	V	K	G	I	G	E	A	T	I	K	N	E	D	R	I	L	L	.....	.....	.....	94																
NTDB id 1382 A4U84 RS07375 WP 062924234.1	L	T	E	V	S	G	I	G	K	A	T	L	E	K	N	R	D	C	I	V	I	E	.....	.....	113															
NTDB id 1362 HI 1008 AAC22669.1	L	L	E	V	Q	G	I	G	K	A	T	L	E	K	N	R	D	R	I	I	F	.....	.....	.....	112															
NTDB id 1069 ABD1 RS03060 WP 043960841.1	I	K	N	V	K	G	I	G	P	A	I	F	E	K	N	K	S	R	L	A	L	.....	.....	.....	136															
NTDB id 613 LCA RS05340 WP 231952379.1	L	Q	K	V	G	G	I	G	P	K	T	F	E	Q	L	Q	S	Q	I	C	V	N	.....	.....	235															
NTDB id 36 MW RS08230 WP 001793467.1	L	K	K	V	K	G	F	G	S	K	T	F	D	K	L	K	S	Y	F	T	I	.....	.....	.....	228															
NTDB id 20 SA RS08005 WP 001802022.1	L	K	K	V	K	G	F	G	S	K	T	F	D	K	L	K	S	Y	F	T	I	.....	.....	.....	228															
NTDB id 105 BSU 25590 NP 390437.1	I	T	K	V	S	G	I	G	E	K	S	F	E	K	I	K	S	S	I	T	V	K	.....	.....	205															
NTDB id 1127 NGFG RS10560 WP 003703428.1	L	I	K	V	K	G	I	G	P	A	V	L	A	K	L	K	D	Q	A	S	V	G	A	P	A	P	K	G	P	A	K	P	V	L	P	A	V	K	K	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	L	I	K	V	K	G	I	G	P	A	V	L	A	K	L	K	D	Q	A	S	V	G	A	P	A	P	K	G	P	A	K	P	V	L	P	A	V	K	K	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	L	I	K	V	K	G	I	G	P	A	V	L	A	K	L	K	D	Q	A	S	V	G	A	P	A	P	K	G	P	A	K	P	V	L	P	A	V	K	K	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	L	I	K	V	K	G	I	G	P	A	V	L	A	K	L	K	D	Q	A	S	V	G	A	P	A	P	K	G	P	A	K	P	V	L	P	A	V	K	K	131
NTDB id 349872 A0073 RS00325 WP 082200224.1	L	K	K	V	K	G	I	G	D	K	T	F	E	E	I	K	D	S	I	V	V	E				79														
NTDB id 1242 Cj0011c YP 002343483.1	L	K	K	V	K	G	I	G	D	K	L	F	E	K	I	K	N	D	I	T	I	E				79														
consensus	*	*	!	!	*	!	*	!	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.....	.....	.....															

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