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NTDB id 300 STER RS07485 WP 011681496.1	MEAIIEKIKEYKIIIVICTGLGLLVGGFFLLKPAPQT.PVKEINLQAEVAAVSKDSYSEKEVKKEEKEEPL	78
NTDB id 1362 HI 1008 AAC22669.1	.MKEKILAYVKDNRLFVSVIAVLMVIFCFFLWMTCGAGNSMEAETSYTDVTALSTSSSKQSSQSLSE.ASSQSKTEGSEK	0
NTDB id 1382 A4U84 RS07375 WP 062924234.1	.....	0
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 1395 DSB67 RS04445 WP 010649155.1	.....	0
NTDB id 613 LCA RS05340 WP 231952379.1	MMWQDYWQRYRRFVWVPCVLV.LGIIAGGFYWHQSQQKQK.V...TQNEQLLATASAKTKP....ATK..KTHQAAT	66
NTDB id 595 KW2 RS08725 WP 021037687.1	..MEKILDKLKEYWKIMLLVV.CALIAGGIFYIFTNSPKPAET...LSVENLSS.....SSTKSSVSKFNSSSSEK	65
NTDB id 521 SMSK321 RS04960 WP 000443804.1	..MESIIEKIKEY.KIIIVICTGLGLLVGG.FFLLKPAPHT..P...VKETNLQAEVVAISKDSSTEKDVKK.EEKEEPV	69
NTDB id 493 SM12261 RS04300 WP 000387351.1	..MEAIIEKIKEY.KIIIVICTGLGLLVGG.FFLLKPAPQT..P...VKETNLQAEVVAVSKDSVSEKEVKK.EEKEEPL	69
NTDB id 153 SP RS04730 WP 000387344.1	..MEAIIEKIKEY.KIIIVICTGLGLLVGG.FFLLKPAPQT..P...VKETNLQAEVAAVSKDSSTEKEVKK.EEKEEPL	69
NTDB id 263 KZH43 RS04195 WP 000387330.1	..MEAIIEKIKEY.KIIIVICTGLGLLVGG.FFLLKPAPQT..P...VKETNLQAEVAAVSKDLVSEKEVNK.EEKEEPL	69
NTDB id 222 SPD RS04535 WP 000387330.1	..MEAIIEKIKEY.KIIIVICTGLGLLVGG.FFLLKPAPQT..P...VKETNLQAEVAAVSKDLVSEKEVNK.EEKEEPL	69
NTDB id 188 SPR RS04295 WP 000387330.1	..MEAIIEKIKEY.KIIIVICTGLGLLVGG.FFLLKPAPQT..P...VKETNLQAEVAAVSKDLVSEKEVNK.EEKEEPL	69
NTDB id 1014 ACIAD RS13855 WP 004924483.1	.....	0
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 105 BSU 25590 NP 390437.1	..MN...WLNQHKKAIILAASAAVFTAIMIFLATGKNKE..P...VKQ.....AVPTETENTVVK.QEANNDE	57
NTDB id 39697 DESPR RS01735 WP 015723091.1		0
NTDB id 1242 Cj0011c YP 002343483.1		0
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NTDB id 300 STER RS07485 WP 011681496.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDE.ALVVYPT.....KCEE	150
NTDB id 1362 HI 1008 AAC22669.1	VKSKVTVDVKGAVVNPVYTLKAGA.RVTDVIQEAGGMTEDADAKSVNLAAASLSE.EVIYVANKDENVSULD.....Q	23
NTDB id 1382 A4U84 RS07375 WP 062924234.1	MKTLL.....FTSVVLCGALVVSSS...FAEE	24
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	MKKL.SR...YTESLLFG.LFSATT...FAEE	27
NTDB id 1150 A1552VC RS08580 WP 001166105.1	MQIKTKIVTLFLSLCLPTLPLLA.....NAEE	27
NTDB id 1294 VP RS04495 WP 021449594.1	MQIKTKIVTLFLSLCLPTLPLLA.....NAEE	19
NTDB id 1395 DSB67 RS04445 WP 010649155.1	MKWILTLCVVFAPLS.....LAA.	19
NTDB id 613 LCA RS05340 WP 231952379.1	MKWMLTLCCLLILAPMS.....WAE.	145
NTDB id 595 KW2 RS08725 WP 021037687.1	KKKGGFVDIKGAVVYPGIYPTITVSETRLFVLKNAGGPTDAADTKRLNLAQKLTLDQ.LTIYIPKKGEVVTQDQLIQAPQQ	131
NTDB id 521 SMSK321 RS04960 WP 000443804.1	NKNEIMVDLKGAVAKPNVYQISSDE.RLVDLIRQAGGFTDQADQKSINLSAKLKDE.EVIYVPKVG.....S	135
NTDB id 493 SM12261 RS04300 WP 000387351.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDE.ALVVYPT.....KCEE	135
NTDB id 153 SP RS04730 WP 000387344.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDE.ALVVYPT.....KCEE	135
NTDB id 263 KZH43 RS04195 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDE.ALVVYPT.....KCEE	135
NTDB id 222 SPD RS04535 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDE.ALVVYPT.....KCEE	135
NTDB id 188 SPR RS04295 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDE.ALVVYPT.....KCEE	135
NTDB id 1014 ACIAD RS13855 WP 004924483.1	MS.....IRHFF...TFFWATLLTLF..SMQIVFAAGGFDQQYDAWKTTQQAHD	43
NTDB id 1127 NGFG RS10560 WP 003703428.1	MSRGG.ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF	41
NTDB id 1126 NGFG RS09375 WP 003703428.1	MSRGG.ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF	41
NTDB id 1125 NGFG RS07215 WP 003703428.1	MSRGG.ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF	41
NTDB id 1108 NGFG RS06525 WP 003703428.1	MSRGG.ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLF	41
NTDB id 105 BSU 25590 NP 390437.1	SNETIVIDIKGAVQHPGVYEMRTGD.RVSQAIEKAGGTSEQADEAQVNLAELQD.GTVVYIPK.....KCEE	123
NTDB id 39697 DESPR RS01735 WP 015723091.1	MKKLYLTLLLVLF	14
NTDB id 1242 Cj0011c YP 002343483.1	MCKLLFLF	9
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NTDB id 300 STER RS07485 WP 011681496.1	T.....GT....GQVSDKGGQAVSKDGK	INLNTATSEQLQT	ISGIGAKRAED	VIAYRESHGGFQ	SVDDLKNVSGIGDKT	220						
NTDB id 1362 HI 1008 AAC22669.1	KATXQTAQSVV.TTQAEAQVAPAVVSDK	LNINTATASEIQKSLT	GIGAKKAE	IVQYREKHGNFXNAE	QLLEVQGIGKAT	102						
NTDB id 1382 A4U84 RS07375 WP 062924234.1	KVTTSTEHTPV.VMQQ.VAATQKVNANV	VNINTATASEIQDKLV	GIGAKKAQ	IVEYREKNGKFLNVE	QLETVSGIGKAT	102						
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	TAPAAQVEEGIVIT	VNINTASAEELATLLK	GIGLKKAAQ	IVDYREANGPFTH	IDDLTNVKGIGEAT	93						
NTDB id 1150 A1552VC RS08580 WP 001166105.1	TAPAAQVEEGIVIT	VNINTASAEELATLLK	GIGLKKAAQ	IVDYREANGPFTH	IDDLTNVKGIGEAT	93						
NTDB id 1294 VP RS04495 WP 021449594.1	DTKADKYEGIEIT	VNINTASAEELATMLK	GIGEKKAQS	IVDYRTEHGPFKTA	ADLTNVKGIGEAT	84						
NTDB id 1395 DSB67 RS04445 WP 010649155.1	TKTKADKYEGIEIT	VNVNSATAQEELATLL	GIGEKKAQD	IVEYRNEHGPFKTA	ADLTNVKGIGEAT	85						
NTDB id 613 LCA RS05340 WP 231952379.1	IATTSERTQEQASTGTSANASSTSDTAK	IDLNQADSTQLQT	LNGIGPKKAEQ	IIAYRDEQGFQKQ	IEDLQKVGIGPKT	224						
NTDB id 595 KW2 RS08725 WP 021037687.1	SSS...ESTDSPTGSSVSNQISTTSGPK	VNINKADLTTELQK	LTGIGQKKAQD	IIDFRMKNMGDFK	SIEDLQKVSFGDKT	207						
NTDB id 521 SMSK321 RS04960 WP 000443804.1	S.....AS.QHTGSGAP	SSTSCKDKK	INLNKASLEELKQ	VKGLGGKRAQD	IIDHREANGKFKSVDELKKVSGIGAKT	205						
NTDB id 493 SM12261 RS04300 WP 000387351.1	A.....AS.QQAGPGTA	SSTSKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	IIDHREANGKFKSVDELKKVSGIGAKT	205						
NTDB id 153 SP RS04730 WP 000387344.1	A.....VS.QQTGSGTA	SSTSKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	IIDHREANGKFKSVDELKKVSGIGGKT	205						
NTDB id 263 KZH43 RS04195 WP 000387330.1	A.....VS.QQTGLGTA	SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	IIDHREANGKFKSVDELKKVSGIGGKT	205						
NTDB id 222 SPD RS04535 WP 000387330.1	A.....VS.QQTGLGTA	SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	IIDHREANGKFKSVDELKKVSGIGGKT	205						
NTDB id 188 SPR RS04295 WP 000387330.1	A.....VS.QQTGLGTA	SSISKEKKVNLN	KASLEELKQ	VKGLGGKRAQD	IIDHREANGKFKSVDELKKVSGIGGKT	205						
NTDB id 1014 ACIAD RS13855 WP 004924483.1	TRL...NSSAS.HHSLSKPTQSGTG	VKNINSATAKELQQ	LHGVGEKKALA	IVEYRQQYGFAS	VDDLQKVKGIGPKF	118						
NTDB id 1127 NGFG RS10560 WP 003703428.1	MLFSCAFSLAA	VNINAASQQE	LEA	LPGIGPAKAKAIAEYRAQ	NGAFKSVDDL	IKVKGIGPAV	103					
NTDB id 1126 NGFG RS09375 WP 003703428.1	MLFSCAFSLAA	VNINAASQQE	LEA	LPGIGPAKAKAIAEYRAQ	NGAFKSVDDL	IKVKGIGPAV	103					
NTDB id 1125 NGFG RS07215 WP 003703428.1	MLFSCAFSLAA	VNINAASQQE	LEA	LPGIGPAKAKAIAEYRAQ	NGAFKSVDDL	IKVKGIGPAV	103					
NTDB id 1108 NGFG RS06525 WP 003703428.1	MLFSCAFSLAA	VNINAASQQE	LEA	LPGIGPAKAKAIAEYRAQ	NGAFKSVDDL	IKVKGIGPAV	103					
NTDB id 105 BSU 25590 NP 390437.1	TAV...QQ....GGGGSVQ	SDGGKGALVNINTAT	LEELQG	ISGVGPSKAEAI	IIAYREENGRFQ	TIEDITKVSIGIGES	194					
NTDB id 39697 DESPR RS01735 WP 015723091.1	AT..AAFAK	VNINTANA	EELAT	LNGIGKTKAEAI	IVAYRTANGNFK	TVEDLNKVNIGDKI	72					
NTDB id 1242 Cj0011c YP 002343483.1	ALTAFLFGA	VNINTATLKLKS	LNGIGEAKAKA	ILEYRK	EANFTSIDDL	KNVKGIGDKL	68					
consensus		*	****	!*	***	*	!!!	***	*****	!!	!!!	**

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NTDB id 300 STER RS07485 WP 011681496.1	LDKIRESLYVA.....	231	
NTDB id 1362 HI 1008 AAC22669.1	LEKNRDRIF.....	112	
NTDB id 1382 A4U84 RS07375 WP 062924234.1	LEKNRDCIVIE.....	113	
NTDB id 1159 ABDM36 RS04765 WP 001166105.1	VRNNAARILL.....	103	
NTDB id 1150 A1552VC RS08580 WP 001166105.1	VRNNAARILL.....	103	
NTDB id 1294 VP RS04495 WP 021449594.1	IKKNEDRILL.....	94	
NTDB id 1395 DSB67 RS04445 WP 010649155.1	VRKNEDRILL.....	95	
NTDB id 613 LCA RS05340 WP 231952379.1	FEQLQSQICVN.....	235	
NTDB id 595 KW2 RS08725 WP 021037687.1	LEKLKDEISID.....	218	
NTDB id 521 SMSK321 RS04960 WP 000443804.1	IEKLKDYVTVD.....	216	
NTDB id 493 SM12261 RS04300 WP 000387351.1	IEKLKDYVTVD.....	216	
NTDB id 153 SP RS04730 WP 000387344.1	IEKLKDYVTVD.....	216	
NTDB id 263 KZH43 RS04195 WP 000387330.1	IEKLKDYVTVD.....	216	
NTDB id 222 SPD RS04535 WP 000387330.1	IEKLKDYVTVD.....	216	
NTDB id 188 SPR RS04295 WP 000387330.1	IEKLKDYVTVD.....	216	
NTDB id 1014 ACIAD RS13855 WP 004924483.1	IEKNRDRILAI.....	128	
NTDB id 1127 NGFG RS10560 WP 003703428.1	LAKLKDQASVGAPAPKGPAPKPVLP	PAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	LAKLKDQASVGAPAPKGPAPKPVLP	PAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	LAKLKDQASVGAPAPKGPAPKPVLP	PAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	LAKLKDQASVGAPAPKGPAPKPVLP	PAVKK	131
NTDB id 105 BSU 25590 NP 390437.1	FEKIKSSITVK.....	205	
NTDB id 39697 DESPR RS01735 WP 015723091.1	IEKIKPDVTIGE.....	84	
NTDB id 1242 Cj0011c YP 002343483.1	FEKIKNDITIE.....	79	
consensus	***** **		

 non conserved
 similar
 $\geq 50\%$ conserved