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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 129529 BF31 RS06690 WP 000971179.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
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NTDB id 601 KW2 RS02615 WP 021036805.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAH	320
NTDB id 378 SMU RS02690 WP 002263569.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPSVAETITILKGIQPKYEDYHHVKYTDEAIEAAAN	327
NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 281 KZH43 RS03550 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 129529 BF31 RS06690 WP 000971179.1	GAIDASNILKPSLARGEELQCIGATTTLDEYRKYIEKDAALERRFQPIHVDEPSLDESTQILKGLRDRYEAAHHRVSIITDDAIDA AVK	377
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSLARGEELQCIGATTTLDEYRKYIEKDAALERRFQPIQVDQPSVDESTIQLQGLRDRYEAAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAAILQGLREKFEDYHQVKFTDQAIKS SAVM	390
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 377 SMU RS09275 WP 002262344.1	STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKS YET YHHV IISDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHMVGATTQA EYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHMVGATTQA EYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
consensus	*!!!!!!!!*!!!!*****!!!!!! !! * !!!!!*!!!!!! * ****!*****!! !** *!****! *! !****!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	LSNRYIQDRFLPDKAIDLLDEAGSKVNLTILKEV.DPKEIDHRLIEAENLKAQATRDDEYEKAAYFRDQIAKYKEMQS.....Q	397
NTDB id 378 SMU RS02690 WP 002263569.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKEIDHRLIEAENLKAQATRDDEYEKAAYFRDQIAKYKEMQS.....A	404
NTDB id 241 SP RS04015 WP 000882523.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 281 KZH43 RS03550 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 245 SPD RS03860 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 243 SPR RS03635 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 129529 BF31 RS06690 WP 000971179.1	LSDRYITDRFLPDKAIDLLDEAASKVRLRSYTTTPPNLKELEVKLEEIRKEKDAAVQSQEF EKAASLRDMEQRLREKLEDTKRQWK	462
NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLLDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQSQEF EKAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMTSRKLPDKAIDLLDEAAA AVKISVKNQQT KRLDLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFS....	471
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPD SAIDLLDEAAATVQNKAKHV KADDSDL.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPD SAIDLLDEAAATVQNKAKHV KADDSDL.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPD SAIDLLDEAAATVQNKAKHV KADDSDL.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGKNLPD SAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.....K....	469
NTDB id 297 STER RS00545 WP 011680614.1	AAHRYLTSKNLPD SAIDLLDEASATVQVR IKK..EDKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPD SAIDLLDEASATVQVR IKK..EAKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
consensus	** !!!!! * !!!!!*!!!!!!*!!!!* **** * * * **** * * !* ** *	

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NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMPVITEKDIIEQIVEEQKTQIPVGD	LKEKEQQTQLINLADDLKAHVIGQDEAVDKI	SKAIRRSRVGLGKPNRPIGSFLFVGP	482
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTPVITEKNIIEVIVEEQKTNIPVGEL	KEKEEQSQLIHLADDLKTRVIGQDAAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	489
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPSISEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTPITISEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTPITISEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTPITISEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 129529 BF31 RS06690 WP 000971179.1	EQQKGENSEVTVEDIANVVSTWTRIPVSKLA	QTTETDKLLNLESILHDRVIGQDEAVVA	VAKAVRRARAGLKDPKRPIGSFIFLGP	547
NTDB id 85 BSU 00860 NP 387967.1	EKQGGQENSEVTVDIAMVVSSWTGVPVSKI	IAQTETDKLLNMENILHSRVIGQDEAVVA	VAKAVRRARAGLKDPKRPIGSFIFLGP	546
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKEDKRQEVTDQAVVAVASTLTGVPITQMT	KSESDRLINLEKELHKKRVVGQEEAISA	VSRAIRRARSQVADSRPMSGFMFLGP	555
NTDB id 290 KZH43 RS10025 WP 001109677.1	VPV.YKDLVTESDILTTL SRLSGIPVQKLT	TQTD AKKYNLEAEALHKKRVIGQDQAVSS	ISRAIRRNQSGIRSHKRPIGSFMFLGP	550
NTDB id 289 SPD RS10700 WP 001109677.1	VPV.YKDLVTESDILTTL SRLSGIPVQKLT	TQTD AKKYNLEAEALHKKRVIGQDQAVSS	ISRAIRRNQSGIRSHKRPIGSFMFLGP	550
NTDB id 287 SP RS11210 WP 001109712.1	VPV.YKDLVTESDILTTL SRLSGIPVQKLT	TQTD AKKYNLEAEALHKKRVIGQDQAVSS	ISRAIRRNQSGIRSHKRPIGSFMFLGP	550
NTDB id 377 SMU RS09275 WP 002262344.1	PLKKRAEVK EEDILATLSKLSGIPVKKLT	QADSKKYNLERELHKKRVIGQDDAVSS	ISRAIRRNQSGIRVGKRPIGSFMFLGP	553
NTDB id 297 STER RS00545 WP 011680614.1	AKFPKPALVDADQIMQTL SRLSGIPVEKMT	TQTD SKRYLNLESELHKKRVIGQDEAVSA	ISRAIRRNQSGIRITGKRPIGSFMFLGP	556
NTDB id 329 STU RS10020 WP 011225298.1	AKFPKPALVDADQIMQTL SRLSGIPVEKMT	TQTD SKRYLNLESELHKKRVIGQDEAVSA	ISRAIRRNQSGIRITGKRPIGSFMFLGP	556
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NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKALAEVLF	GD EDSMIRFDMSEYMEKH	SVSRVNGAPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	567
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTELAKALAEVLF	GD EDSMIRFDMSEYMEKH	SVSRVNGAPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	574
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTELAKALAEVLF	GD EDSMIRFDMSEYMEKH	SVSRVNGAPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	573
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTELAKALAEVLF	GD EDSMIRFDMSEYMEKH	SVSRVNGAPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTELAKALAEVLF	GD EDSMIRFDMSEYMEKH	SVSRVNGAPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTELAKALAEVLF	GD EDSMIRFDMSEYMEKH	SVSRVNGAPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	573
NTDB id 129529 BF31 RS06690 WP 000971179.1	TGVGKTELARALAE	SMFGDEAMIRIDMSEYMEKH	STSRLVGSPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	632
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELARALAE	SMFGDEAMIRIDMSEYMEKH	STSRLVGSPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	631
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALADS	VFGSEDNMIRVDMSEFMEKH	STSRLVGSPPGYVGYDEGGQ	TEKVRNKPYSVLL	DEVEKAHPDVFN	IMVLL	640
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAE	VLFDDESALIRFDMSEYMEK	FASRLNGAPPGYVGYDEGGEL	TEKVRNKPYSVLL	DEVEKAHPDIFNVLL		635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAE	VLFDDESALIRFDMSEYMEK	FASRLNGAPPGYVGYDEGGEL	TEKVRNKPYSVLL	DEVEKAHPDIFNVLL		635
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAE	VLFDDESALIRFDMSEYMEK	FASRLNGAPPGYVGYDEGGEL	TEKVRNKPYSVLL	DEVEKAHPDIFNVLL		635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAE	VLFDDESALIRFDMSEYMEK	FASRLNGAPPGYVGYDEGGEL	TEKVRNKPYSVLL	DEVEKAHPDIFNVLL		638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAE	VLFDDESALIRFDMSEYMEK	FASRLNGAPPGYVGYDEGGEL	TEKVRNKPYSVLL	DEVEKAHPDIFNVLL		641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAE	VLFDDESALIRFDMSEYMEK	FASRLNGAPPGYVGYDEGGEL	TEKVRNKPYSVLL	DEVEKAHPDIFNVLL		641
consensus	!!!!!!	*****	* * *	* * *	*****	*****	

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 129529 BF31 RS06690 WP 000971179.1	VIHSAEKVK.....	811
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		



-  non conserved
-  similar
-  ≥ 50% conserved