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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 136419 BF24 RS17520 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	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAH	320
NTDB id 378 SMU RS02690 WP 002263569.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILKGIQPKYEDYHHVKYTDEAIEAAAN	327
NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 281 KZH43 RS03550 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 136419 BF24 RS17520 WP 000971179.1	GAIDASNILKPSLARGEELQCIGATTLDEYRKYIEKDAALERRFQPIHVDEPSLDESTQILKGLRDRYEAAHHRVSIITDDAIDA AVK	377
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSLARGEELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQGLRDRYEAAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAAILQGLREKFEDYHQVKFTDQAIKSAVM	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	STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKSYYETYYHHVII SDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQA EYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHVMVGATTQA 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 136419 BF24 RS17520 WP 000971179.1	LSDRYITDRFLPDKAIDLLDEAASKVRLRSYTTTPPNLKELEVKLEEIRKEKDAAVQSQEFEKAASLRDMEQRLREKLEDTKRQWK	462
NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLLDEAGSKVRLRSFTTPPNLKELEQKLDEVRKEKDAAVQSQEFEKAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMTSRKLPDKAIDLLDEAAA AVKISVKNQQT KRLDLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEK IADKIYKFS....	471
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHV KADDSDL.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHV KADDSDL.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHV KADDSDL.....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGKNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLLKKEK.....K....	469
NTDB id 297 STER RS00545 WP 011680614.1	AAHRYLTSKNLPDSAIDLLDEASATVQVR IKK..EDKREI....T....PLDEALISGDIGA AVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPDSAIDLLDEASATVQVR IKK..EAKREI....T....PLDEALISGDIGA AVKQYKANQ.....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	KITDQDTPIIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTPIIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTPIIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDLKSHVIGQDDAVDKI	AKAIRNRVGLGTPNRPIGSFLFVGP	488
NTDB id 136419 BF24 RS17520 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.YKDLVTESDILTTLSRLSGIPVQKLT	TQTDACKKYNLEAEALHKKRVIGQDQAVSS	ISRAIRRNQSGIRSHKKRPIGSFIMFLGP	550
NTDB id 289 SPD RS10700 WP 001109677.1	VPV.YKDLVTESDILTTLSRLSGIPVQKLT	TQTDACKKYNLEAEALHKKRVIGQDQAVSS	ISRAIRRNQSGIRSHKKRPIGSFIMFLGP	550
NTDB id 287 SP RS11210 WP 001109712.1	VPV.YKDLVTESDILTTLSRLSGIPVQKLT	TQTDACKKYNLEAEALHKKRVIGQDQAVSS	ISRAIRRNQSGIRSHKKRPIGSFIMFLGP	550
NTDB id 377 SMU RS09275 WP 002262344.1	PLKKRAEVKKEEDILATLSKLSGIPVKKLT	QADSKKYNLERELHKKRVIGQDDAVSS	ISRAIRRNQSGIRVGKKRPIGSFIMFLGP	553
NTDB id 297 STER RS00545 WP 011680614.1	AKFPKPALVDADQIMQTL SRLSGIPVEKMT	QTDSKRYLNLESELHKKRVIGQDEAVSA	ISRAIRRNQSGIRITGKKRPIGSFIMFLGP	556
NTDB id 329 STU RS10020 WP 011225298.1	AKFPKPALVDADQIMQTL SRLSGIPVEKMT	QTDSKRYLNLESELHKKRVIGQDEAVSA	ISRAIRRNQSGIRITGKKRPIGSFIMFLGP	556
consensus	*	*****	* * * * *	

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NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	567
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	574
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	573
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	573
NTDB id 136419 BF24 RS17520 WP 000971179.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	632
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	631
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	640
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	635
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAEVLF	FGDEDSMIRFDMSEYMEKH	SVSR	LVGAPPGYVGYDEGGQ	TEKVRNKPYSV	LLDEVEKAHPD	VFN	M	L	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 136419 BF24 RS17520 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