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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 95512 QMM33 RS06660 WP 000882530.1
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 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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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consensus

[illegible]

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logo

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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 95512 QMM33 RS06660 WP 000882530.1
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 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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consensus

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NTDB id 601 KW2 RS02615 WP 021036805.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAH	320
NTDB id 378 SMU RS02690 WP 002263569.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITILKGIQPKYEDYHHVKYTDEAIEAAAN	327
NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 95512 QMM33 RS06660 WP 000882530.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 281 KZH43 RS03550 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAIEAAAT	326
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSRLARGEELQCIGATTLDEYRKYIEKDAALERRFQPIQVDQPSVDESIIQLQGLDRDRYEAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRRLARINVDEPSPDEAIAILQGLREKFEDYHQVKFTDQAIKS	390
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 377 SMU RS09275 WP 002262344.1	STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKSSETYHHVVISDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQAHEYQKHIEKDAALSRRFAKITIEEPSVSEATIDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHVMVGATTQAHEYQKHIEKDAALSRRFAKITIEEPSVSEATIDILNGLRSSYEDYHRVTITDAAVETAVK	410
consensus	*!!!!!!*!!!!*!*!!!!!! !! !!!!!*!!!! * ****!*****!! !* *!***! ! *! !****!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLKF..VDPEDINRRITADAEENKKNEATKAEDFEKAAHFRDQISKRLRELQK.....Q	397
NTDB id 378 SMU RS02690 WP 002263569.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKEIDHRLIEAENLKAQATREDYFEKAAAYFRDQIAKYKEMQS.....A	404
NTDB id 241 SP RS04015 WP 000882523.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAAYFRDQIAKYKEMQK.....K	403
NTDB id 95512 QMM33 RS06660 WP 000882530.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAAYFRDQIAKYKEMQK.....K	403
NTDB id 281 KZH43 RS03550 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAAYFRDQIAKYKEMQK.....K	403
NTDB id 245 SPD RS03860 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAAYFRDQIAKYKEMQK.....K	403
NTDB id 243 SPR RS03635 WP 000882517.1	LSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNF..VDPKVIDQRLIEAENLKSQATREEDFEKAAAYFRDQIAKYKEMQK.....K	403
NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLLDEAGSKVRLRSFTTPNKLKELEQKLDEVRKEKDAAVQSQEFEEKAAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMSTRKLPDKAIDLLDEAAAANKISVKNQQTGRDLLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFS....	471
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPDSAIDLLDEAAATVQNKAKHVKAADSDL....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	AAHRYLTSKNLPDSAIDLLDEASATVQVRIRKK..EDKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPDSAIDLLDEASATVQVRIRKK..EAKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
consensus	** !!* *!!!!*!!!!*!!!!* * * * * * * * * * ! * * * * * * * *	

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NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMPVITEKDIIEQIVEEQKTQIPVGD	LKEKEQ	ETQLINLAD	DLKAHVIGQDEAVDK	ISKAIRRSRVGLGKPNRPIGSFLFVGP	482											
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTPVITEKNIIEVIVEEQKTNIPVGELKEKEEQSQLIHLADDL	KTRVIGQDA	AVDKIAKAIRNRVGLGTPNRPIGSFLFVGP	489													
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPSISEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDL	KSHVIGQDDAVDKIAKAIRNRVGLGTPNRPIGSFLFVGP	488													
NTDB id 95512 QMM33 RS06660 WP 000882530.1	KITDQDTP	IIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDL	KSHVIGQDDAVDKIAKAIRNRVGLGTPNRPIGSFLFVGP	488												
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTP	IIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDL	KSHVIGQDDAVDKIAKAIRNRVGLGTPNRPIGSFLFVGP	488												
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTP	IIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDL	KSHVIGQDDAVDKIAKAIRNRVGLGTPNRPIGSFLFVGP	488												
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTP	IIESEKTIIEHIIIEQKTNIPVGD	LKEKEEQSQLIHLAEDL	KSHVIGQDDAVDKIAKAIRNRVGLGTPNRPIGSFLFVGP	488												
NTDB id 85 BSU 00860 NP 387967.1	EKQGGENSEVTVD	DIAMVVSSW	TGVPVSKIAQTETDKL	NMENILHSRVIGQDEAVVA	VAKAVRRARAGLKDPKRPIGSFIFLGP	546											
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKEDKRQEVTDQA	VVA	VASTLTGVPITQMTKSESDRLINLEKELH	KRVVGQEEA	ISAVSRAIRRARSGVADSRRPMGSFMFLGP	555											
NTDB id 287 SP RS11210 WP 001109712.1	VPV.YKD	LVTESD	ILTTLSRLSGIPVQKLTQTDAKKYLNLEAELH	KRVIGQDQAVSSI	ISRAIRRNQSGIRSHKRPIGSFMFLGP	550											
NTDB id 290 KZH43 RS10025 WP 001109677.1	VPV.YKD	LVTESD	ILTTLSRLSGIPVQKLTQTDAKKYLNLEAELH	KRVIGQDQAVSSI	ISRAIRRNQSGIRSHKRPIGSFMFLGP	550											
NTDB id 289 SPD RS10700 WP 001109677.1	VPV.YKD	LVTESD	ILTTLSRLSGIPVQKLTQTDAKKYLNLEAELH	KRVIGQDQAVSSI	ISRAIRRNQSGIRSHKRPIGSFMFLGP	550											
NTDB id 377 SMU RS09275 WP 002262344.1	PLLKKRAEV	KEED	ILATLSKLSGIPVKKLTQADSKKYLNLERELH	KRVIGQDDAVSSI	ISRAIRRNQSGIRVKGKRPIGSFMFLGP	553											
NTDB id 297 STER RS00545 WP 011680614.1	AKFPKPALVDADQ	IMQTL	SRLSGIPVEKMTQTDSKRYLNLESELH	KRVIGQDEAVSA	ISRAIRRNQSGIRTGKRPIGSFMFLGP	556											
NTDB id 329 STU RS10020 WP 011225298.1	AKFPKPALVDADQ	IMQTL	SRLSGIPVEKMTQTDSKRYLNLESELH	KRVIGQDEAVSA	ISRAIRRNQSGIRTGKRPIGSFMFLGP	556											
consensus	*	*****	*	**	*	*****	*!	*	*	*****	*!	*!*****!	*	*!*****	!*	*	!!!!!!!!!!!!

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NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKQ	LAKELFGSS	ESMIRFDMSEYMEKHSVA	KLIGAPPGYVGYE	EAGQLTERVRRNPYS	LILLDEIEKAHPDVMHMF	567				
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTEL	SKQLAIELFGS	EDSMIRFDMSEYMEKHA	VLVGAPPGYVGYE	EAGQLTEKVRNPYS	LILLDEVEKAHPDVMHMF	574				
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKHSVA	KLVGAPPGYVGYDE	AGQLTEKVRHNPYS	LILLDEVEKAHPDVMHMF	573				
NTDB id 95512 QMM33 RS06660 WP 000882530.1	TGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKHSVA	KLVGAPPGYVGYDE	AGQLTEKVRHNPYS	LILLDEVEKAHPDVMHMF	573				
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKHSVA	KLVGAPPGYVGYDE	AGQLTEKVRHNPYS	LILLDEVEKAHPDVMHMF	573				
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKHSVA	KLVGAPPGYVGYDE	AGQLTEKVRHNPYS	LILLDEVEKAHPDVMHMF	573				
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTEL	SKQLAIELFGS	ADSMIRFDMSEYMEKHSVA	KLVGAPPGYVGYDE	AGQLTEKVRHNPYS	LILLDEVEKAHPDVMHMF	573				
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTEL	ARALAES	IFGDEESMIRIDMSEYMEKH	STSR	LVGSPPGYVGYDE	GGQLTEKVRKPY	SVVLLDEIEKAHPDVFNILL	631			
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTEL	AKALADS	VFGSEDNMIRVDMSEFMEKH	STSR	LIGAPPGYVGYDE	GGQLTERVRNKPYS	VVLLDEVEKAHPDVFNIML	640			
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTEL	AKALAEV	LFDD	ESALIRFDMSEYMEKFAAS	RNLNGAPPGYVGYE	EGGELTEKVRNKPYS	VLLLFDEVEKAHPDIFNVLL	635			
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTEL	AKALAEV	LFDD	ESALIRFDMSEYMEKFAAS	RNLNGAPPGYVGYE	EGGELTEKVRNKPYS	VLLLFDEVEKAHPDIFNVLL	635			
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTEL	AKALAEV	LFDD	ESALIRFDMSEYMEKFAAS	RNLNGAPPGYVGYE	EGGELTEKVRNKPYS	VLLLFDEVEKAHPDIFNVLL	635			
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTEL	AKALAEV	LFDD	ESALIRFDMSEYMEKFAAS	RNLNGAPPGYVGYE	EGGELTEKVRNKPYS	VLLLFDEVEKAHPDIFNILL	638			
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTEL	AKALAEV	LFDD	ESALIRFDMSEYMEKFAAS	RNLNGAPPGYVGYDE	EGGELTEKVRNKPYS	VLLLFDEIEKAHPDIFNILL	641			
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTEL	AKALAEV	LFDD	ESALIRFDMSEYMEKFAAS	RNLNGAPPGYVGYDE	EGGELTEKVRNKPYS	VLLLFDEIEKAHPDIFNVLL	641			
consensus	!!!!!!!!!!*	!!	*!* *	**	*****	!!!!!!!!!!!!*	*	*!*****	!!!!!!!!!!!!*	*	!

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVP	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 95512 QMM33 RS06660 WP 000882530.1	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 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	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

