

NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNINDS.....TI	13
NTDB id 79833 L6498 RS00525 WP 061681772.1	..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGIAAKALIALGLSPEKVQKEVEALIG.....RGTEAS	75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLLEAMATTSGSIAYSLLAGMNVDSDDLIDL.....EDLSHVQVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETf	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETf	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETf	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEDVRFEDYQAAAILAIGKKPKSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AAVLAMEKRPKDLSES DI	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AAVLAMEKRPKDLSES DI	81
consensus	*** * * * * *	

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NTDB id 241 SP RS04015 WP 000882523.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDPNNSLFGKMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TPP	77
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NTDB id 243 SPR RS03635 WP 000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDPNNSLFGKMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TPP	77
NTDB id 79833 L6498 RS00525 WP 061681772.1	QTVHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVINNLGVSLNKAARQQVLQ..LLGSNE.....	146
NTDB id 85 BSU 00860 NP 387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVINNLGVSLNKAARQQVLQ..LLGSNE.....	146
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAEEVMTAASFIAIHNSEAVGTEHLLYALLQVEDGFGQLLKL.....QKINIVSLRKELEKRTGLKVPESSK	153
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLBERAGWTREDLKA	160
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLBERAGWTREDLKA	160
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLBERAGWTREDLKA	160
NTDB id 377 SMU RS09275 WP 002262344.1	MLLEQSHALKRTIAEAAAIISQVTHAKEVGTEHVLFAMLLNPNLLATRILLELVGFHAKDDGESIRLLDLRKVTERYAGFSKEDIKA	164
NTDB id 297 STER RS00545 WP 011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEVGSEHVLMFAFLHKDLMVCRLLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id 329 STU RS10020 WP 011225298.1	DLRAQSPALEAMLQEAQGIASVTGAVEVGSEHVLMFAFLHKDLMVCRLLLEVAGFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
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 281 KZH43 RS03550 WP 000882517.1
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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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NTDB id 601 KW2 RS02615 WP 021036805.1
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NTDB id 329 STU RS10020 WP 011225298.1
consensus

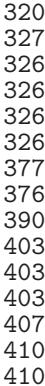


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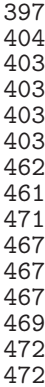
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consensus

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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	EVTDEDMPVITEKDI	IEQIVEQKTQIPVGD	LKEKEQQTQLINL	ADDLKAHVIGQDE	AVDKISKAIRRSRV	GLGKPNRP	IGSFLFVGP	482													
NTDB id	378	SMU	RS02690	WP	002263569.1	KLDKENTPVITEKNI	IEVIVEQKTNIPVG	ELKEKEQSQLIHL	ADDLKTRVIGQDA	AVDKIAKAIRNRV	VGLGTPNR	PIGSFLFVGP	489													
NTDB id	241	SP	RS04015	WP	000882523.1	KITDQDTPSISEKTI	IEHIEQKTNIPVG	DLKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNR	PIGSFLFVGP	488													
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NTDB id	245	SPD	RS03860	WP	000882517.1	KITDQDTPITISEKTI	IEHIEQKTNIPVG	DLKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNR	PIGSFLFVGP	488													
NTDB id	243	SPR	RS03635	WP	000882517.1	KITDQDTPITISEKTI	IEHIEQKTNIPVG	DLKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKAIRNRV	VGLGTPNR	PIGSFLFVGP	488													
NTDB id	79833	L6498	RS00525	WP	061681772.1	EQQKGENSEVTVED	IANVVSTWTRIPV	SKLAQTETDKLL	NLESILHDRVIGQ	DEAVVAVAKAVRR	ARAGLKDPKR	PIGSFIFLGP	547													
NTDB id	85	BSU	00860	NP	387967.1	EKQGGENSEVTVDD	IAMVVSSWTGVP	VSKIAQTETDKLL	NMENILHSRVIGQ	DEAVVAVAKAVRR	ARAGLKDPKR	PIGSFIFLGP	546													
NTDB id	610	V4T04	RS10165	WP	012897346.1	VKEDKRQEVTDQAV	VAVASTLTGVPIT	QMTKSESDRLIN	LEKELHKKRVGQ	EEAISA	VSRAIRRARSG	VADSRPMGSF	FLGP	555												
NTDB id	290	KZH43	RS10025	WP	001109677.1	VVPV.YKDLVTESD	ILTTLSRLSGIPV	QKLTQTDAKKYL	NLEAEALHKKRV	IGQDQAVSSI	ISRAIRRNQSG	IRSHKKRPIGS	SFMFLGP	550												
NTDB id	289	SPD	RS10700	WP	001109677.1	VVPV.YKDLVTESD	ILTTLSRLSGIPV	QKLTQTDAKKYL	NLEAEALHKKRV	IGQDQAVSSI	ISRAIRRNQSG	IRSHKKRPIGS	SFMFLGP	550												
NTDB id	287	SP	RS11210	WP	001109712.1	VVPV.YKDLVTESD	ILTTLSRLSGIPV	QKLTQTDAKKYL	NLEAEALHKKRV	IGQDQAVSSI	ISRAIRRNQSG	IRSHKKRPIGS	SFMFLGP	550												
NTDB id	377	SMU	RS09275	WP	002262344.1	.PLLKKRAEVKKEED	ILATLSKLSGIPV	KKLTQADSKKYL	NLERELHKKRV	IGQDDAVSSI	ISRAIRRNQSG	IRVGKKRPIGS	SFMFLGP	553												
NTDB id	297	STER	RS00545	WP	011680614.1	.AKFPPKPALVDADQ	IMQTL	SRLSGIPVEKMTQT	DSKRYLNLESEL	HKKRVIGQDEAVSA	ISRAIRRNQSG	IRITGKKRPIGS	SFMFLGP	556												
NTDB id	329	STU	RS10020	WP	011225298.1	.AKFPPKPALVDADQ	IMQTL	SRLSGIPVEKMTQT	DSKRYLNLESEL	HKKRVIGQDEAVSA	ISRAIRRNQSG	IRITGKKRPIGS	SFMFLGP	556												
consensus						*	*****	*	***	*!	*	*	*****	*!	*	*	*****	*!	*	*	*****	!*	*	*!	*****	*****

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NTDB id	601	KW2	RS02615	WP	021036805.1	TGVGKTELAKQ	LAKELFGSS	ESMIRFDMSEYMEKHSV	AKLIGAPPGYGVGY	EEAGQLTER	VRNRPYS	LILLDETE	EKAHPDV	MHMFL	567	
NTDB id	378	SMU	RS02690	WP	002263569.1	TGVGKTEL	SKQLAIELFGSE	DSMIRFDMSEYMEKHAV	AKLVGAPPGYGVGY	EEAGQLTEK	VRNRPYS	LILLDEVE	EKAHPDV	MHMFL	574	
NTDB id	241	SP	RS04015	WP	000882523.1	TGVGKTEL	SKQLAIELFGSAD	SMIRFDMSEYMEKHSV	AKLVGAPPGYGVGY	DEAGQLTEK	VRHNPYS	LILLDEVE	EKAHPDV	MHMFL	573	
NTDB id	281	KZH43	RS03550	WP	000882517.1	TGVGKTEL	SKQLAIELFGSAD	SMIRFDMSEYMEKHSV	AKLVGAPPGYGVGY	DEAGQLTEK	VRHNPYS	LILLDEVE	EKAHPDV	MHMFL	573	
NTDB id	245	SPD	RS03860	WP	000882517.1	TGVGKTEL	SKQLAIELFGSAD	SMIRFDMSEYMEKHSV	AKLVGAPPGYGVGY	DEAGQLTEK	VRHNPYS	LILLDEVE	EKAHPDV	MHMFL	573	
NTDB id	243	SPR	RS03635	WP	000882517.1	TGVGKTEL	SKQLAIELFGSAD	SMIRFDMSEYMEKHSV	AKLVGAPPGYGVGY	DEAGQLTEK	VRHNPYS	LILLDEVE	EKAHPDV	MHMFL	573	
NTDB id	79833	L6498	RS00525	WP	061681772.1	TGVGKTELAR	ALAE	ESMFGDE	EDAMIRIDMSEYMEKHST	SRLVGS	PPGYGVGY	EEGGQLTEK	VRNRPYSV	LLDEVEKAHPDV	VFNILL	632
NTDB id	85	BSU	00860	NP	387967.1	TGVGKTELAR	ALAE	ESIFGDE	ESMIRIDMSEYMEKHST	SRLVGS	PPGYGVGY	DEGGQLTEK	VRNRPYSV	LLDETEKAHPDV	VFNILL	631
NTDB id	610	V4T04	RS10165	WP	012897346.1	TGVGKTELAKAL	AD	SVFGSE	DNMIRVDMSEFMEKHST	SRLIGAPPGYGVGY	DEGGQLTEK	VRNRPYSV	LLDEVEKAHPDV	VFNIML	640	
NTDB id	290	KZH43	RS10025	WP	001109677.1	TGVGKTELAKAL	AEVLFDD	ESALIRFDMSEYMEKFAA	SRLNGAPPGYGVGY	EEGGELTEK	VRNKPYSV	LLFDEVEKAHPD	IFNVLL	635		
NTDB id	289	SPD	RS10700	WP	001109677.1	TGVGKTELAKAL	AEVLFDD	ESALIRFDMSEYMEKFAA	SRLNGAPPGYGVGY	EEGGELTEK	VRNKPYSV	LLFDEVEKAHPD	IFNVLL	635		
NTDB id	287	SP	RS11210	WP	001109712.1	TGVGKTELAKAL	AEVLFDD	ESALIRFDMSEYMEKFAA	SRLNGAPPGYGVGY	EEGGELTEK	VRNKPYSV	LLFDEVEKAHPD	IFNVLL	635		
NTDB id	377	SMU	RS09275	WP	002262344.1	TGVGKTELAKAL	AEVLFDD	ESALIRFDMSEYMEKFAA	SRLNGAPPGYGVGY	EEGGELTEK	VRNKPYSV	LLFDEVEKAHPD	IFNVLL	638		
NTDB id	297	STER	RS00545	WP	011680614.1	TGVGKTELAKAL	AEVLFDD	ESALIRFDMSEYMEKFAA	SRLNGAPPGYGVGY	DEGGELTEK	VRNKPYSV	LLFDETEKAHPD	IFNVLL	641		
NTDB id	329	STU	RS10020	WP	011225298.1	TGVGKTELAKAL	AEVLFDD	ESALIRFDMSEYMEKFAA	SRLNGAPPGYGVGY	DEGGELTEK	VRNKPYSV	LLFDETEKAHPD	IFNVLL	641		
consensus							*****	*!	*	*	*	*****	*****	*****	*****	*****

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NTDB	id	601	KW2	RS02615	WP	021036805.1	ISNQTQETAETTTDEEVPAAE	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	79833	L6498	RS00525	WP	061681772.1	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
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NTDB	id	329	STU	RS10020	WP	011225298.1	TFTVV.....	816
consensus								

- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved