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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 79880 L6451 RS00525 WP 000971179.1	..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGLAAKALIALGLSPEKVQKEVEALIG.....RGTEAS		75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLIGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS		75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR		77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET		75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET		75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET		75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN...DI		79
NTDB id 329 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI		81
NTDB id 327 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI		81
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NTDB	id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQT...MKSQGGEALFGAGNASNGNSDE.....PFNP.FNDIFSALEGGQ.DFNGAASNQ	81
NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQT...MKTDPPENGPLNHISQQNSSS.....INPFFDDDFGDLNNFRAFNNQDLPN	80
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TPP	77
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TPP	77
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TPP	77
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKT...IKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDLNNFRPSSN..TPP	77
NTDB	id	79880	L6451	RS00525	WP	000971179.1	QTVHYHTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQ..LLGSNE.....	146
NTDB	id	85	BSU	O0860	NP	387967.1	QTIHYHTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQ..LLGSNE.....	146
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSRAEEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRIERAGFSYEDKKDVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRLLQVLFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRIERAGFSYEDKKDVKIAALRRNLEERAGWTREDLKA	160
NTDB	id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEEAAISQVTHAKEVGTEHVLFAMLLNPNLLATRIEELVGFHAKDDGESIRLLDLRKVTERYAGFSKEDIKA	164
NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEARMLQEAEIASVGTGAVEVGSEHVLMFAFLHKDLMVCRLLEVAGFQYKDSDSKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEARMLQEAEGIASVGTGAVEVGSEHVLMFAFLHKDLMVCRLLEVAGFQYKDSDSKPRIIDLRRSLERNAGLSKQDLKA	166
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NTDB id 60 KW2 RS02615 WP 021036805.1
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NTDB id 79880 L6451 RS00525 WP 000971179.1
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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 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
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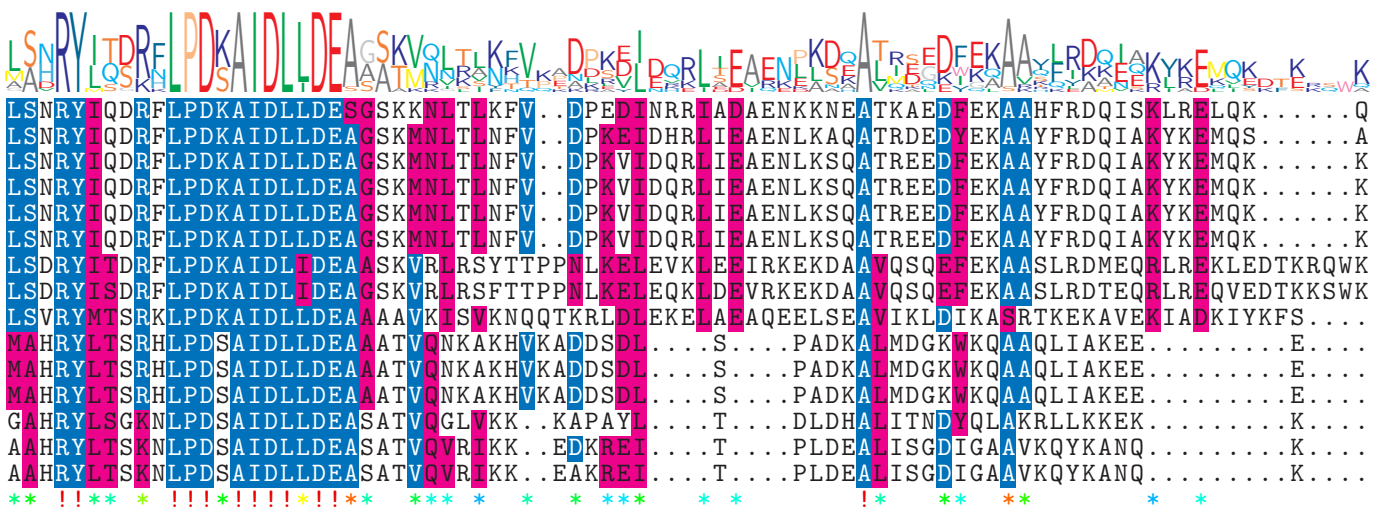
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consensus



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logo

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NTDB id 329 STU RS10020 WP 011225298.1
consensus



397
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462
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471
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467
467
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472

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	EVTDEDMPVITEKDI	EQIVEQKTQIPVGD	LKEKEQQTQLINL	ADDLKAHVIGQDE	AVDKISK	AI	RRSRVGL	GKPNRPIGSFL	LVGP	482
NTDB id 378 SMU RS02690 WP 002263569.1	KLDKENTPVITEKNI	IEVIVEQKTNIPVG	ELKEKEQSQLIHL	ADDLKTRVIGQDA	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL	LVGP	489
NTDB id 241 SP RS04015 WP 000882523.1	KITDQDTPSISEKTI	IEHIIIEQKTNIPV	GD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL	LVGP
NTDB id 281 KZH43 RS03550 WP 000882517.1	KITDQDTP	IIESEKTI	IEHIIIEQKTNIP	VGD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL
NTDB id 245 SPD RS03860 WP 000882517.1	KITDQDTP	IIESEKTI	IEHIIIEQKTNIP	VGD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL
NTDB id 243 SPR RS03635 WP 000882517.1	KITDQDTP	IIESEKTI	IEHIIIEQKTNIP	VGD	LKEKEQSQLIHL	AEDLKSHVIGQDD	AVDKIAKA	AI	RRNRVGL	GTPNRPIGSFL
NTDB id 79880 L6451 RS00525 WP 000971179.1	EQQKGENSEVTVED	IANVVSTWTRIPV	SKLAQTETDKLLN	LESILHDRVIGQDE	AVVA	AKAVRRARAGL	KDPKRP	IGSFIF	FLGP	547
NTDB id 85 BSU 00860 NP 387967.1	EKQGGENSEVTVDD	IAMVVSSWTGVPV	SKIAQTETDKLLN	MENILHSRVIGQDE	AVVA	AKAVRRARAGL	KDPKRP	IGSFIF	FLGP	546
NTDB id 610 V4T04 RS10165 WP 012897346.1	VKEDKRQEVTDQAV	VAVASTLTGVPIT	QMTKSESDRLIN	LEKELH	KRVVGQEEA	ISAVSRA	AI	RRARS	SGVADSRR	PMGSFMFLGP
NTDB id 290 KZH43 RS10025 WP 001109677.1	VPV.YKD	LVTESDIL	TTL	SRLSGIPVQKLT	QTDAKKYLNLEA	ELH	KRVIGQDQAVSSIS	RA	IRRNQSGIR	SHKRP
NTDB id 289 SPD RS10700 WP 001109677.1	VPV.YKD	LVTESDIL	TTL	SRLSGIPVQKLT	QTDAKKYLNLEA	ELH	KRVIGQDQAVSSIS	RA	IRRNQSGIR	SHKRP
NTDB id 287 SP RS11210 WP 001109712.1	VPV.YKD	LVTESDIL	TTL	SRLSGIPVQKLT	QTDAKKYLNLEA	ELH	KRVIGQDQAVSSIS	RA	IRRNQSGIR	SHKRP
NTDB id 377 SMU RS09275 WP 002262344.1	PLKKRAEVK	EEDILATLSKLS	SGIPVKKLTQAD	SKKYLNLEREL	HKRVIGQDD	AVSSIS	RA	IRRNQSGIR	VGKRP	IGSFIF
NTDB id 297 STER RS00545 WP 011680614.1	AKFPKPALVDADQ	IMQTL	SRLSGIPVEKMT	QTDSKRYLNLE	SELH	KRVIGQDEAVSA	IS	RA	IRRNQSGIR	TGKRP
NTDB id 329 STU RS10020 WP 011225298.1	AKFPKPALVDADQ	IMQTL	SRLSGIPVEKMT	QTDSKRYLNLE	SELH	KRVIGQDEAVSA	IS	RA	IRRNQSGIR	TGKRP
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NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	567
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	574
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	573
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	573
NTDB id 79880 L6451 RS00525 WP 000971179.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	632
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	631
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	640
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	635
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAE	VLFGDEDSMIR	EDMSEYMEKH	SVSR	LNGAPPGYVGY	DEGGQTEKVR	NKPYSV	LLFDEVEKAHPD	IFNVLL	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
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NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 79880 L6451 RS00525 WP 000971179.1	VIHSAEKVK.....	811
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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