

logo

	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSSLEPALEEELLQLS	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSSLEPALEEELLQLS	160
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	HGDRTDPLMP SHGLVSQ LLQLDVSEL LDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HGDRTDPLMP SHGLVSQ LLQLDVSEL LDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI LEEKLYTQYTPDISNDLPQQDSTSFEP IYNIETP	0
NTDB id 1419 SGL RS12550 WP 010873252.1	MTS	3
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI LEEKLYTQYTPDISNDLPQQDSTSFEP IYNIETP	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	EPN EWATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGPRIHFNWYEEENEDAAFTNLSLY	0
NTDB id 1419 SGL RS12550 WP 010873252.1	DPN.....PAQAFENWFEEEEGDDAFTSLI	28
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGI DTDLNIWVGEQENFAALNNLM	560
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	RYL EHTLKGGANMVQATYLG LIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	0
NTDB id 1419 SGL RS12550 WP 010873252.1	AGE.....	31
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	RYLHTLKGGANMVQATYLG LIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	640
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	EQNSNFEELBYVBAFBAEPEVISEEKYLS EITIDEIPVELEPALAELETHHDQVFDTSXCELEAPVEMITLBNSENEEYR	0
NTDB id 1419 SGL RS12550 WP 010873252.1	ETNSGIEELDFGDLFEGEPTVIQGEFGS.....PSSGEEDPPVRMTLDFNSPEAELD	84
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GQNSNFQPLPVVEAFDAESEVFSEQKVIS EIIIDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA	720
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	ANEQDI EAVVEQLFLEERTETTERYDESLSSWLEOSTNR	0
NTDB id 1419 SGL RS12550 WP 010873252.1	ALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDLAE LQDLLGVGDVEP	153
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ANEQDIEAVVEQTFLEEATELLEMAESLLKQWF EQRTNR.....S.....ILL.....	763
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	AITNPGLHSFAGADRVTPLTNEVLL.FA.....AIDDL DGLINAPVLDEEFSF.....TELET LIDTPAPKS	214
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.QLQRAVHSLKGGARMVGLEAVQAIAYQLEN AFEQFALHHFNSNIYDHLLES AIAWLKDAIFNHNYQHFDGLQQSLENIQ	842
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	FATISHPFRLPVAMEEDEDEFKDLEALLEQADSSLGGGIAGMGGARLPARP...RQVKSR SF EQTMRVPIKQLDNLSNLI	291
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	F..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMGAW EQTERLDQNNEMIRVSADLIEKMIDLS	910
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	GENSYNRsRtESDQEBFRFLYMLENAQRLSDYLSRMEDLEYEQITLEGALLASRSTNSRHHSSKTTYPDARITAKSSSEH	0
NTDB id 1419 SGL RS12550 WP 010873252.1	GELVVKRNRLAQDQERLRQFLDNLLNQAQNLSDVGGRMQDLYERTLLEGALLASRSTNSRHHSSKTTYPDARITASSSST	371
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQI.....IAKHGIEH	964
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	SRDTSFDALEMDSYTSFHLNLSREMLSLVBYKSKNTLSKYBSTSYLSTSSYCTETQEGMTRRLVVPFISTLRLR	0
NTDB id 1419 SGL RS12550 WP 010873252.1	MNDQPLDALEMDRFTGFHLLSQEMIELIVRVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTKSRMVPFTQTADRLPR	451
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	SRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESLLLQQSRIQAEIQEGLMRTRLVPFSRLLPRLQR	1044
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	AYREYSKLNRRXNLEVNNTSXYETDRNILERLYNPYEHLYRNAIDHGTESPAERQRANLKPEEGRTAYRAPEQGNSYYYY	0
NTDB id 1419 SGL RS12550 WP 010873252.1	AIREVSMKLNKKVNLEVEGGDVLIDKMMILEHLYNPMTHLVNNAITHGIETPAERQKLGKSPEGHLAVRAFLQGNQTLITV	531
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	IVRQTSTALNRPAELFVNNTGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQRQGTDVVVVF	1124
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	SDDGAGINTEYEVQRKAYLKGLISRMEASQLSQSEVYDLLFHAGFSTKSTXSTASGRGVGLDWVSTSTKSTSGHYSYESY	0
NTDB id 1419 SGL RS12550 WP 010873252.1	SDDGAGINTEYEVQRKAYLKGLISRMEASQLSQSEVYDLLFHAGFSTKSTXSTASGRGVGLDWVSTSTKSTSGHYSYESY	611
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	SDDGGGIDVEKVRQKALLAGLIKPEQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDWVQSDIKSLGGHVSVESVY	1202
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 205703 BRW62 RS11305 WP 099799508.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 205703 BRW62 RS11305 WP 099799508.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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GRGTTFTIRLPETYSYKALNKKSRBBSFAFMDSYBTRBYLPKSLYDYESEQKLYYENREALLLRKYPLRLSEFNR
 0
 GKGTTFTIRLPLTLSICKALCCLSDRARIAFPMDGVEDTRDYLPKDIVTD.EDGQKCKVKYGKEALLLPLYPLKDLLNYNR 690

 0
 GQGTFTTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN....KRYPLRYLSEFVG 1277

 0

 0

 0

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 205703 BRW62 RS11305 WP 099799508.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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RTPTERTLNGGKQEEDSLFVHYARANNGRILALCYDQYTGEEQIVYKPLESPFRTPELAGATYRGDGSYQELADYQLTA	0
QLSRGSSVYGGKQEEDVVRVITIARGSSGNLLALQIDQVLGEEE.IVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELI	769
.....	0
NQPIPLRLNG...VMYSLPVLMIKANNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQANIA	1354
.....	0
.....	0
.....	0

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 205703 BRW62 RS11305 WP 099799508.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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[illegible]

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 205703 BRW62 RS11305 WP 099799508.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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NTDB id 372 SMU RS05280 WP 002262198.1	TSENSTSLIGPFSLYPPAYVAKKGTETLHREFELLHLAHTSSVMTREHLLET	V
NTDB id 1419 SGL RS12550 WP 010873252.1	TLILPTCQVN.....FSQ....ALITKGELEIQLTAKESYILKVLYNNQNRIVTFDQLLEK.....V	183
NTDB id 413 AAK55817.1 141..845()	TRKTNLSILSRFKKARGNFSEEAPTIVRSNPGTL.....R.....STVLIIDDSVMVREMLSMTFKKADYHTTETARDGQDA	997
NTDB id 374 SMU RS06885 WP 002262930.1	GQ.EADSKPQ.PIQIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLET.....V	187
NTDB id 1046 HON27 RS03130 WP 168726941.1	VAEENASGIP.EIIIGDLQILPDAFVAKKRGTEVELTHREFELLHHLATHGTGQVMTREHLLET.....V	188
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	1506
NTDB id 205703 BRW62 RS11305 WP 099799508.1		127
NTDB id 1417 SGL RS04200 WP 014407071.1		121
consensus		121

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NTDB id 372 SMU RS05280 WP 002262198.1	WGYDYFG...DVRTVDVTV.....RRLRKIEPTPSR...PEYILT	RRGVGYMKY...	
NTDB id 1419 SGL RS12550 WP 010873252.1	WGLQYQGYENTMMA.....HIRKIRQKIEANPSK...PECLLTVK.....GLGYKLKVS.....		229
NTDB id 413 AAK55817.1 141..845()	WEKLKSGLPCLDLILCDIEMPRMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEETLLEASQ		1077
NTDB id 374 SMU RS06885 WP 002262930.1	WGYDYFG...DVRTVDVTV.....RRLRKIEPTPSR...PEYILT.....RRGVGYMKY...		234
NTDB id 1046 HON27 RS03130 WP 168726941.1	WGYDYFG...DVRTVDVTV.....RRLRKIEPTPSR...PEYILT.....RRGVGYMKSYD.....		235
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....		1506
NTDB id 205703 BRW62 RS11305 WP 099799508.1			127
NTDB id 1417 SGL RS04200 WP 014407071.1			121
consensus			121

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NTDB id 372 SMU RS05280 WP 002262198.1	RLIRGEVLLDLAALSAD	229
NTDB id 1419 SGL RS12550 WP 010873252.1	RLIRGEVLLDLAALSAD	1095
NTDB id 413 AAK55817.1 141..845( )	.....	234
NTDB id 374 SMU RS06885 WP 002262930.1	.....	235
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 205703 BRW62 RS11305 WP 099799508.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus	.....	

-  non conserved
-  similar
-  ≥ 50% conserved