

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	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	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	80
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEEELLQLS	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	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEEELLQLS	160
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	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	HTLMAETVTGTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	HGDRTDPLMP SHGLVSQLLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	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 SHGLVSQLLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYNTES	3
NTDB id 413 AAK55817.1 141..845()	MTS	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYNTIEP	480
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	DPN.....	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	EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEGIDTDLNIWVGEQENFAALNNLM	560
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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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	RYLHTLKGGANMVQATYLGLIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	640
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	ETNSGIEELDFGDLFEGETPTVIQGEFGS.....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	GQNSNFQPLPVVEAFDAESEVFSEQKVISIIDEIPVELEPALAELETHHDQVFDTA	720
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	ANEQDIEAVVEQTFTERTETTERESLSSWEORINR.....ALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDL	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	ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFQRTNR.....S.....ILL.....	763
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	AITNPGLHSFAGADRVTPLTNEVLL.FA.....AIDDLGLINAPVLDEEFSF.....TELETLIDTPAPKS	214
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	.QLQRAVHSLKGGARMVGLEAVQAIAYQLENAFEQFALHHFNSNIYDHLLESIAIWLKDAIFNHNHYQHFDGLQQSLENIQ	842
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	FATISHPFRLPVAMEEDEDKDLLEALLEGADSSLGGGIAGMGGARLPARP...RQVKSRSEFQTMRVPIKQLDNLSNLI	291
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.....VMTFIQGDGTEPPPMGAWEQTERLDQNNEMIRVSADLIEKMIDLS	910
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	G E N S Y N R S R I E S D E E S F S F L D E M E L A A Q R L S D Y L R M E D E L E R T L E G A L L A S R S T N S R H H S S K T T Y P D A R I T A K S S S E H	
NTDB id 413 AAK55817.1 141..845()	GELVVKRNRL EQDQERLRQFLDNLLNQAQNLSDVGGRMQDLYERTLLEGALLASRSTNSRHHSSKTTYPDARITASSSST	371
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 281173 C7I86 RS02340 WP 014407071.1	GENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQI.....IAKHGIEH	964
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		0

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NTDB id 1419 SGL RS12550 WP 010873252.1	S R Y Q T D F D P L E M D Q Y S S L N Q L S K S L A E S A S D L V D F K N T L S D K I R D T E S L L L Q Q S R I Q A E I Q E G L M R T R L V P F S R L L P R L Q R	
NTDB id 413 AAK55817.1 141..845()	MNDQPLDALEMDRFTGFHLLSQEMIELIVRVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTKSRMVPFTQTADRLLPR	451
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 281173 C7I86 RS02340 WP 014407071.1	SRYTDFDPLEMDQYSSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESLLLQQSRIQAEIQEGLMRTRLVPFSRLLPRLQR	1044
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		0

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NTDB id 1419 SGL RS12550 WP 010873252.1	A Y R E V S M K L N K K V N L E V E G G D V L I D K M I L E H L Y N P M T H L V N N A I T H G I E T P A E R Q K L G K S P E G H L A V R A F L Q G N Q T L I T V	
NTDB id 413 AAK55817.1 141..845()	AIREVSMKLNKKVNLEVEGGDVLIDKMLEHLYNPMTHLVNNAITHGIETPAERQKLGKSPEGHLAVRAFLQGNQTLITV	531
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 281173 C7I86 RS02340 WP 014407071.1	IVRQTSTALNRPAELFVNNTEGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQRQGTDVVVVF	1124
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		0

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NTDB id 1419 SGL RS12550 WP 010873252.1	S D D G A G I N T E M V K Q K A V E K G L I S R M E A Q S L S Q S E V Y D L L F H A G F S T K D T A D D F A G R G V G L D V V R T S L I D I R G A I N I E S T V	
NTDB id 413 AAK55817.1 141..845()	SDDGAGINTEMVKQKAVEKGLISRMEAQSLSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAINIESTV	611
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 281173 C7I86 RS02340 WP 014407071.1	SDDGQGIDVEKVRQKALLAGLIKP..EQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVSVESVY	1202
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus	.....	0

logo

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 281173 C7I86 RS02340 WP 014407071.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

GRGTTFTIRYPETYSYKALNMYRDBSFAIPRSYBTRDVSFKSTYQDFESGQELKYEYEREALLLRYPRLRLSEFNR
GKGTTFTIRLPLTLTSICKALCCLSDRARIAFPMGDGVEDTRDYLPKDIVTD.EDGQKCVKYGKEALLLPLYPLKDLLNYNR 690
..... 0
..... 0
GQGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN.....KRYPLRYLSEFVG 1277
..... 0
..... 0
..... 0

logo

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 281173 C7I86 RS02340 WP 014407071.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

RSRPSYXGKGQEEDSLPVIIRANNGSTYALEYDQYLGEEQIVYKPIESQFSSPPXLAGATYRGDGSYMPIDYENLA
QLSRGSVYGGKQEEDEVVRVIIARGSSGNLLALQIDQVLGEEE.IVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELI 769
..... 0
..... 0
NQPIPRNLNG...VMYSLPVLMIKANNGQTVALLDQLIGSRAQIVVKPIGQFSSIGAIAGATILGDGQVCLILDGQNI 1354
..... 0
..... 0
..... 0

logo

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 281173 C7I86 RS02340 WP 014407071.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

EQIQRSTRTIKDLSSEALYWRKTLTPRMEADEDLIMTEESQSRYLKEFEDAERTLQKRNQWYQQTQENCTM
EIAQGRRLRT.DSSGGLWRKTLTPTVNEVHMDPTVLIVDDSIIVRELLSLSFKKAGFRVEQARDGQEAWDQLKSGLPCDLV 848
.....MKKILIVDDEKPIISDIKFNMTKEGYEVVTAFTNGREALEQFEAEQP.DII 49
.....MKKILIVDDEKPIISDIKFNLAKEGYDTITAFDGREALSKEYEENP.DII 49
RQIQSTQRHKQLSEAVY.....RQRESDELLIMIVDDSVTVRKVTSRLLERQGYDVVTAQDGVDATEQLENIKP.DLM 1427
.....MNAVLLVEDSSSQREMISGILKDHGWQVTIACDGVEALEKLQNFSP.DLV 49
.....MNAVLLVEDSSSQREMISGILKDHGWQVTIACDGVEALEKLQNFSP.DLV 49
.....MEDAFQNLKVMVIDDSKTIRRTAETLLQREGCEVITAVDGFELSKITAEANP.DIV 55
* *****! * ***** * * * !***** * ! * !***** ! !**

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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 281173 C7I86 RS02340 WP 014407071.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

YLDIMPRDGYEVCRRIRSDPKTOSNYPIVIMLSSKGSFEFDRGADYTKPFELLSIKALLRSEMPYSY
FYLELEIFNLQTLARFVQNPBETKYMIALITARTEDRHSEKARRYSSSEFAYITKSDQBNABRWVNESELEKAC
FCDIEMPRKNGLELLSELQADEELSSIPVALLTSRGADRRHKVAAKLGATGYFTKPYTEKDILDAANRMLNGEVLLPGST 928
ILDLMLEIDGLEVAKTIRK...TSSVPILMLSADSEFDKVIKLELGADDYVTKPFSNRELQARVKALLRRSQMPMPVDG 126
ILDLMLEIDGLEVAKEVRK...NSHVPIIMLSADSEFDKVIKLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAV 126
LLDIEMPRMDGFEVLNLRHHDMHQYMPIIMITSRTGEKHRERAFSLGVSQYMGKPFQEEELLENIDALLVAFESEVKS. 1506
VLDIVMPRMNGYEVCCRISDPKTKNVPIVIMCSSKGEFDRFWGMRQCADAYIAKPFQPMELVGTIKQLLRN..... 121
VLDIVMPRMNGYEVCCRISDPKTKNVPIVIMCSSKGEFDRFWGMRQCADAYIAKPFQPMELVGTIKQLLRN..... 121
FVDIMPRLDGYQTCALIKNSQNYQNIPVIMLSSKDGLFDQAKGRVVGSDLEYLTKPFSSKDELLNAIRNHVSS..... 127
* !*****!*****!***** * * * !***** * * * !***** !***** !***** !*****

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NTDB id 1419 SGL RS12550 WP 010873252.1	5ENSSSRLLIGDLsYPDAVAKKYGTEELTHREFELLHLAHTGQVMTREHLLET	
NTDB id 413 AAK55817.1 141..845()	RKTNSI.LSRFKKARGNFSEEAPTIVRSNPGTL.....R.....STVLIIDDSVMVREMLSMTFKKADYHTTETARDGQDA	997
NTDB id 374 SMU RS06885 WP 002262930.1	Q.EADSKPQPI..QIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLET.....V	187
NTDB id 1046 HON27 RS03130 WP 168726941.1	AEENASGIPEI..IIGDLQILPDADFVAKKRGTEVELTHREFELLHHLATHTGQVMTREHLLET.....V	188
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	1506
NTDB id 1417 SGL RS04200 WP 014407071.1		121
NTDB id 1047 HON27 RS03110 WP 000389061.1		121
consensus		127

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NTDB id 1419 SGL RS12550 WP 010873252.1	WGYDYFG...DVRTVDVTV...RRLREKIEDTPSR...PEYILT	
NTDB id 413 AAK55817.1 141..845()	WEKLKSGLPCLDLILCDIEMPRMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAQGYFVKPYIEETLLEASQ	1077
NTDB id 374 SMU RS06885 WP 002262930.1	WGYYDYFG...DVRTVDVTV...RRLREKIEDTPSR...PEYILT.....RRGVGYMRNNA*.....	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	RRGVGYMRNNA*.....	235
NTDB id 281173 C7I86 RS02340 WP 014407071.1	.....	1506
NTDB id 1417 SGL RS04200 WP 014407071.1		121
NTDB id 1047 HON27 RS03110 WP 000389061.1		121
consensus		127

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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 281173 C7I86 RS02340 WP 014407071.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
consensus	.....	

-  non conserved
-  similar
-  ≥ 50% conserved