

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	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	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	80
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus		

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS	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	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS	160
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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 54955 CRI9333 RS05585 WP 015202186.1	.....	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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	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	HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQQRVGWVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP I YN I E S	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	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQQRVGWVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP I YN I E P	480
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGIAGAFETIYEELEENEDAFNNLM	560
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	RYLHTLKGGANMVQATYLGGLIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	640
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	EQNSNFEELBYBBAFBAEPEVFSSECKYLSSEITIDEIPVELEPALAELETHHDQVFDTSYCELRFPVEMITDYNSSPEAEYR	
NTDB id 413 AAK55817.1 141..845()	ETNSGIEELDFGDLFEGEPTVIQGEFGFS.....PSSGEEDPPVRMTLDFNSPEAELD	84
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	GQNSNFQPLPVVEAFDAESEVFSEQKVISEIIIDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA	720
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	ANEQDI EAWVEALFTBEEETETTEMRESESSSWLEPBNR	
NTDB id 413 AAK55817.1 141..845()	ALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDLAEQLDLLGVGDVEP	153
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFQRTNR.....S.....ILL.....	763
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	ATLRBALHSHKGRMYELNMYLYR	
NTDB id 413 AAK55817.1 141..845()	AITNPGLHSFAGADRVPTLTNEVLL.FA.....AIDDDLGLINAPVLDEEFSF.....TELETLIDTPAPKS	214
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.QLQRAVHSLKGGARMVGL EAVQAIAYQLENAFEQFALHHFNNSNIYDHLLESIAIWLKDAIFNHNHYQHFDGLQQSLENIQ	842
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	FATFETTHFSTPYKMBREDFRSLEK	
NTDB id 413 AAK55817.1 141..845()	FATISHPFRLPVAMEEDEDKFDLEALLEQADSSLYMTFIRCGGTESCPMSAEBCYRBSNNQYRVSAKPTENMISLS	291
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	0
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	F..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMGAWEQTERLDQNNEMIRVSADLIEKMIDLS	910
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 R R I E S D C E E S F S F L Y M E L N A Q R L S D G L R M E D E Y 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 A K S S S E H	371
NTDB id 413 AAK55817.1 141..845()	G E L V V K R N R L E Q D Q E R L R Q F L D N L L N Q A Q N L S D V G G R M Q D L Y E R T L 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 S S S S T	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	G E N S I N R S R I E M D L S Q F S H T L V E M E L A I Q R L A D Q L R R M E G E L E T Q I I A K H G I E H	964
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	S R Y C E F D A L E M D S Y S S F H N L S R E L A E A S B Y K E F K S D I S Y K Y B E T E S Y A R G R S B Y C A E I Q E G M T K S R M V P F S I S I A B R L P R	451
NTDB id 413 AAK55817.1 141..845()	M N D Q P L D A L E M D R F T G F H L L S Q E M I E L I V R V R E S A S D I Q Y L V D E T D Q V A R T L R Q V T T Q L Q E G M T K S R M V P F T Q T A D R L P R	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	S R Y 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	1044
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	A Y R E Y S T A L N R K X E L E V N N T E Y E I D R M I L E R L Y N P M E H L Y N N A I S H G I E S F A E R Q R A N K S E E G R I E Y S A P E Q G N S Y Y Y Y	531
NTDB id 413 AAK55817.1 141..845()	A I 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	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	I V R Q T S T A L N R P A E L F V N N T E G E L D R N I L E R L V T P L E H M L R N A I D H G L E D R A Q R Q Q A N K P E T G R I E L N I Q R Q G T D V V V V F	1124
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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	S D D G R G I N Y E M V R Q K A Y E K G L I R F M E A Q S L E Q S E Y Y B L I F H R G F S T K E S X S S F A G R G V G L D W S I S I K S I S G A Y S Y E S Y Y	611
NTDB id 413 AAK55817.1 141..845()	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	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	S D D G Q G I D V E K V R Q K A L L A G L I K P . . E Q D L E Q Q D I L Q L I F H P G L S T A E Q V T Q I S G R G V G L D V V Q S D I K S L G G H V S V E S V Y	1202
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus		

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 54955 CRI9333 RS05585 WP 015202186.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

GRGTTFTIRYPETYSYSAALMYSRBSBAFPLASRYEBTREVSPKSTYGLFESFQELFEYENREALLLLREYPLRLSEYFNR
GKGTTFTIRLPLTLSICKALCCLSDRARIAPFMDGVEDTRDYLPKDIVTD.EDGQKCVKYGKEALLLPLYPLKDLLNYNR 690
..... 0
..... 0
GQGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN.....KRYPLRYLSEFVG 1277
..... 0
..... 0
..... 0

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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 54955 CRI9333 RS05585 WP 015202186.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

RSPFRSYNGCKQKEEDSLFVLYARANNCRILYALQYDQYCEBAQIVYKPIEGPFSSPFAIAGATYRGDCSYMLADYQNTA
QLSRGSVYGGKQEEDVVRVIIARGSSGNLLALQIDQVLGEEE.IVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELI 769
..... 0
..... 0
NQPIPRNLNG...VMYSLPVLMIKANNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQANIA 1354
..... 0
..... 0
..... 0

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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 54955 CRI9333 RS05585 WP 015202186.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

EIAQGRRLRT.DSSGGLWRKTLTPTVNEVHMDPTVLIVDDSIIVRELLSLSFKKACFRVEQARDQCEAWDQLKSGLPDCDLV 848
.....MKKILIVDDEKPISDIIFKNMTKEGYEVVTAFFNGREALEQFEAEQP.DII 49
.....MKKILIVDDEKPISDIIFKNLAKEGYDTITAFDGREALSKYBEENP.DII 49
RQIQSTQRHKQLSEAVY.....RQRESDERRLIMIVDDSVIVRKVTSRLERQCYDVVTAKDGVDAEQLENIKP.DIM 1427
.....MSTILVDDSGMLREMVSELLKKSMTVILANDGLECKEQLENMIP.DLV 49
.....MNAVLLVEDSSSQREMSGILKDHCMQVTIACDCVEALEKLQNFSP.DLV 49
.....MEDAFQNLKVMVIDDSKTIIRTAETLLQHEGCEVITAVDGFALSKIAEANP.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 54955 CRI9333 RS05585 WP 015202186.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

FCDIEMPRKNGLELLSELQADEELSSIPVALLTSHGADRRHKVAAKIGATGYFTKPYTEKDILDAANRMNGEVLLPGST 928
ILDLMLEIDGLEVAKTIRK...TSSVPIIMLSAKDSEFDKVICLEIGADDYVTKPFSNRELQARVKAALLRRSQMPMPVDG 126
ILDLMLEIDGLEVAKEVRK...NSHVPIIMLSAKDSEFDKVICLEIGADDYVTKPFSNRELLARVKAHLRRTENIESAV 126
LLDIEMPRMDGFEVLNLRHHDMHQYMPIIMTSRTGCKHRERAFSLGVSQYMGKPFQEEELLENIDALLVAFESEVKS. 1506
ITDLIMPRMNGEYELCRWIKGNPKLQNLVPVIMCSSKGEFDRFWCMRQCADAYIAKPPQPMELVGTIKQLLRN..... 121
VLDIVMPRMNGEYELCRWIKGNPKLQNLVPVIMCSSKGEFDRFWCMRQCADAYIAKPPQPMELVGTIKQLLRN..... 121
FVDIMMPRLDGYGTALIKNSQNYQNPVIMLSSKDGLFDQAKGRVVGSDYELTKPFSKDELLNAIRNHVSS..... 127
!*!***!*** * ** *!***** ***** * * !*** !*!***! *!*** * * *

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NTDB id 1419 SGL RS12550 WP 010873252.1		
NTDB id 413 AAK55817.1 141..845()	RKTNSI.LSRFKKARGNFSEEAPTIVRSNPRTL.....R.....STVLIIDDSVMVREMLSMTFKKADYHTETARDGQDA	997
NTDB id 374 SMU RS06885 WP 002262930.1	Q.EADSKPQPI..QIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLET.....V	187
NTDB id 1046 HON27 RS03130 WP 168726941.1	AEENASGIPEI..IIGDLQILPDAFVAKKRGTEVELTHREFELLHHLATHTGQVMTREHLLET.....V	188
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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		
NTDB id 413 AAK55817.1 141..845()	WEKCLKSGLPCDLILCDIEMPRMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEETLLEASQ	1077
NTDB id 374 SMU RS06885 WP 002262930.1	WGYDYFG...DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMRNNA*.....	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	WGYYDYFG...DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMKSVD.....	235
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	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		
NTDB id 413 AAK55817.1 141..845()	RLIRGEVLLDLAALSADE	1095
NTDB id 374 SMU RS06885 WP 002262930.1	.....	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	235
NTDB id 54955 CRI9333 RS05585 WP 015202186.1	.....	1506
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	121
consensus	.....	127

- non conserved
- similar
- ≥ 50% conserved