

logo

NTDB id 372 SMU RS05280 WP 002262198.1	MKEILKLTLEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSEN	IATLT	TEIRRH	FHTLKGSGRMIGAKSSAELAWT	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	MKEILKLTLEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSEN	IATLT	TEIRRH	FHTLKGSGRMIGAKSSAELAWT	85
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	.....	.....	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	.....	0
consensus	.....	.....	.....	.....	0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	VEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPL	LILLG	QQLQQQSLEPALEELLQLSHTLMAETVTG	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	VEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPL	LILLG	QQLQQQSLEPALEELLQLSHTLMAETVTG	170
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	.....	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	0
consensus	.....	.....	.....	0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	LELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNAL	IRALHT	LRGSSAMAQVETIFEAS	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	LELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNAL	IRALHT	LRGSSAMAQVETIFEAS	255
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	.....	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	0
consensus	.....	.....	.....	0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	TKVEHLFKILLQEELSSHSEEILLQYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQHGDRTDPLMP	SHGLV	SQLLQ	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	TKVEHLFKILLQEELSSHSEEILLQYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQHGDRTDPLMP	SHGLV	SQLLQ	340
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	.....	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	.....	0
consensus	.....	.....	.....	0

logo

NTDB id 372 SMU RS05280 WP 002262198.1	LDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEVLLDKPALLQSDYIFEIYQKAHQQLI	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	LDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEVLLDKPALLQSDYIFEIYQKAHQQLI	425
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	QLFDALAAQQRVGWKQHQSIILEELKLYTQYTPDISNDLPQQDSTSFEP IYNIEPEPEVATVENFSDSADWAVLGQSVQQDRQY	0
NTDB id 1419 SGL RS12550 WP 010873252.1	MTSDPN.....	6
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	QLFDALAAQQRVGWKQHQSIILEELKLYTQYTPDISNDLPQQDSTSFEP IYNIEPEPEVATVENFSDSADWAVLGQSVQQDRQY	510
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	ISSTQVNRNFDADLLDIFLEEAEELLEGIDTDLNIWVGEQENFAALNNLMRYLHTLKGGANMVQATYLGGLIAHELES IYERLIQK	0
NTDB id 1419 SGL RS12550 WP 010873252.1	PAQAFENWFEEEEGDDAFTSLIAGE.....	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	ISSTQVNRNFDADLLDIFLEEAEELLEGIDTDLNIWVGEQENFAALNNLMRYLHTLKGGANMVQATYLGGLIAHELES IYERLIQK	595
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	QLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRAEQNSNIPLEWELFBAFBAEPEVLSQKYSLEITIDEIPVEL	0
NTDB id 1419 SGL RS12550 WP 010873252.1	ETNSGIEELDFGDLFEQEPTVIQEGEGFS.....	60
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	QLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRAEQNSNIPLEWELFBAFBAEPEVLSQKYSLEITIDEIPVEL	680
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	EPALAELETHHDQVFDTSYSELRTPVEMITTSYKSPENLYRANEQDI EAWVERITFTERTETTRYREFELRSSWFEYBKNREADPLA	0
NTDB id 1419 SGL RS12550 WP 010873252.1	PSSGEEDPPVRMTLDFNSPEAELD.....ALFTDEDAPTTAIDPFESSSSWLEIDQMMEADPLA	118
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	EPALAELETHHDQVFDTA VTELATPVEMITTVTSQENEVAANEQDIEAVVEQTFLEEATELLEMAESLLKQWFEQRTNR.....	759
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	SIPETNAPAYQTAGGLDDNDLAEIQDLLGVGDVEPATITSPAYHSKAGARMYELINWLLYQALENAFEQFAHHHNSNIIDRYL	0
NTDB id 1419 SGL RS12550 WP 010873252.1	SIPETNAPAYQTAGGLDDNDLAEIQDLLGVGDVEPAITNPGLHSFAGADRVTPLTNEVLL.FA.....AIDDLGLINAPVL	194
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	S.....ILL.....QLQRAVHSLKGGARMVGLEAVQAIAYQLENAFEQFALHHFNSNIYDHL	812
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	EEAFALWKDAIFNHNHYTEHSELTSIPARKSFATFETTFSTPYKMEEREDEFRLERALLEQADSSYGGFIQMGTEBPXREAWES	0
NTDB id 1419 SGL RS12550 WP 010873252.1	DEEFSF.....TELETLIDTPAPKSFATISHPPFRLPVAMEEDEDEFKDLEALLEQADSSLGGGIAGMGGARLPARP...R	266
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	ESAIAWLKDAIFNHNHYQHFDGLQQSLENIQF..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMGAWEQ	885
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	QYRFBSSNNQYRVFABKPTENMNLFGENYKRRRESDPESFRRTLYNMLNQAQLADYLRMPDEYETTLLEGALLASRSTNSR	0
NTDB id 1419 SGL RS12550 WP 010873252.1	QVKSRSEFQTMRVPIKQLDNLSNLIGELVVKRNRLEQDQERLRQFLDNLLNQAQNLSDVGGRMQDLYERTLLEGALLASRSTNSR	351
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	TERLDQNNEMIRVSADLIEKMIDLSGENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQI.....	956
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	HHSSKTTYPDAR	0
NTDB id 1419 SGL RS12550 WP 010873252.1	HHSSKTTYPDARITASSSSSTMNDQPLDALEMDRFTGFHLLSQEMIELIVRVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTK	436
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	IAKHGIEHSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESLLLQQSRIQAEIQEGLMR	1029
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
NTDB id 22231 TLL RS01760 WP 011056201.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	SRMVPF	0
NTDB id 1419 SGL RS12550 WP 010873252.1	SRMVPFTQTADRLPRAIREVSMKLNKKVNLEVEGGDVLIDKMLEHLYNPMTHLVNNAITHGIETPAERQKLGSPEGHLAVRAF	521
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	TRLVPFSRLLPRLQRIVRQTSTALNRPaelFVNNTegELDRNILERLVTpleHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQ	1114
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
NTDB id 22231 TLL RS01760 WP 011056201.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	LQGNQTLITVSDDGAGINTEMVKQKAVEKGLISRMEaQSLsQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAIN	606
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	RQGTDVVVVFSDDGQGIDVEKVRQKALLAGLIKp..EQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVS	1197
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
NTDB id 22231 TLL RS01760 WP 011056201.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	IES	0
NTDB id 1419 SGL RS12550 WP 010873252.1	IES	690
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	VESVYGQGTTF	1277
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
NTDB id 22231 TLL RS01760 WP 011056201.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

NTDB id 372 SMU RS05280 WP 002262198.1	..LSRGSVYGGKQEEDVVRVIIARGSSGNLLALQIDQVLGEEE.IVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELIEIAQG	0
NTDB id 1419 SGL RS12550 WP 010873252.1	QLSRGSVYGGKQEEDVVRVIIARGSSGNLLALQIDQVLGEEE.IVIKQIEGPIPKPPGIAGATVRGDGSIMPIADVLELIEIAQG	774
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	NQPIPRLNG...VMYSLPVLMIKANNGQTVALLDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIARQIQS	1359
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

NTDB id 372	SMU RS05280 WP 002262198.1	MNYKEK	KILILDDNPE	ILEMVQES	LNIAAGFNN	LTCGVQSKK	EALQQLGKRSF	DLA	I	L	D	I	M	L	P	D	G	63
NTDB id 1419	SGL RS12550 WP 010873252.1	RLRT.DSSGGLWRKTLTPTVNEVHMDPT	VLIVDDS	SIT	RELLSLSFKK	KAGFRVEQARD	GQEAWDQLKSGLP	CDL	V	F	C	D	I	E	M	P	R	857
NTDB id 413	AAK55817.1 141..845()	MK	KILIVDD	EKP	ISDIIKFN	MTKEGYEVTAFN	GREALEQGFEEAQ	D	I	I	L	D	M	L	M	P	E	58
NTDB id 374	SMU RS06885 WP 002262930.1	MK	KILIVDD	EKP	ISDIIKFN	LAKEGYDTITAFD	GREALSKYEENP	DL	I	I	L	D	M	L	M	P	E	58
NTDB id 1046	HON27 RS03130 WP 168726941.1	TQRHKQLSEAVY.....RQRES	DERRLIMIVDD	SVTVRKV	TSRLLERQGYD	VVTAKD	GVDATE	Q	E	L	E	N	I	K	P			1436
NTDB id 1047	HON27 RS03110 WP 000389061.1	MEDAFQNL	KVMVIDDS	KTIRRTAETL	LQREGCEVITAVD	GFEALSKITAEANP	DIVFVD	I	M	P	P	R	L					64
NTDB id 22231	TLL RS01760 WP 011056201.1	MT	KVLVVED	SPQREMI	SELAKTGFEVTVATD	GVEAMEQLQ	QSTP	D	V	V	V	D	I	V	M	P	R	58
NTDB id 1417	SGL RS04200 WP 014407071.1	MNA	VLVDES	SSQREMI	SGIKDHW	GWQVTIACD	GV	E	A	E	K	L	Q	N	F	S	P	58
consensus			*****!	*****	*	!*****	*	*	!*****	*	*	!*****	*	!*****!	*****!	*****!		

[illegible]

NTDB id 372	SMU RS05280 WP 002262198.1	..FSQ....ALITKGELEIQLTAKEYSILKVLNNQNRIVTFDQLLEK.....VWGLQYQGYENTMMA.....	197
NTDB id 1419	SGL RS12550 WP 010873252.1	GNFSEEAPTIVRSNPGTL.....R.....STVLIIDDSVMVREMLSMTFKKADYHTETARDGQDAWEKCLKSGLPCDLILCDIEMP	1017
NTDB id 413	AAK55817.1 141..845()	GDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLT.....VWGYDYFG...DVRTVDVTV.	203
NTDB id 374	SMU RS06885 WP 002262930.1	GDLQILPDAFVAKKRGTEVELTHREFELLHHLATHTGQVMTREHLLT.....VWGYDYFG...DVRTVDVTV.	204
NTDB id 1046	HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047	HON27 RS03110 WP 000389061.1	.....	127
NTDB id 22231	TLL RS01760 WP 011056201.1	.....	121
NTDB id 1417	SGL RS04200 WP 014407071.1	.....	121
consensus			

logo

NTDB id 372 SMU RS05280 WP 002262198.1	..HIRKIRQKIEANPSK...PECLLTVK.....GLGYKLKVS.....	229
NTDB id 1419 SGL RS12550 WP 010873252.1	RMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEETLLEASQRLIRGEVLLDLAALSAD	1095
NTDB id 413 AAK55817.1 141..845()	RRLREKIEDTPSR...PEYILT.....RRGVGYMNRNNA*.....	234
NTDB id 374 SMU RS06885 WP 002262930.1	RRLREKIEDTPSR...PEYILT.....RRGVGYMKSVD.....	235
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 22231 TLL RS01760 WP 011056201.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved