

logo

	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEELLQLS	
NTDB id 372 SMU RS05280 WP 002262198.1		0
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NTDB id 374 SMU RS06885 WP 002262930.1		0
NTDB id 1419 SGL RS12550 WP 010873252.1		0
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NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	
NTDB id 372 SMU RS05280 WP 002262198.1		0
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NTDB id 374 SMU RS06885 WP 002262930.1		0
NTDB id 1419 SGL RS12550 WP 010873252.1		0
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		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
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NTDB id 374 SMU RS06885 WP 002262930.1		0
NTDB id 1419 SGL RS12550 WP 010873252.1		0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	HGDRTDPLMP SHGLVSQLLQLDVSEL LDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAM LGLHEYTSQLKESYEV	0
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NTDB id 374 SMU RS06885 WP 002262930.1		0
NTDB id 1419 SGL RS12550 WP 010873252.1		0
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	LLDKPALLQSDYIFEIYQKAHQQLIQ LFDALAAGQRVGVVKQHQSILEELKLYTQYTPDISNDLPQQDSTSFEP IYNIETP	0
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NTDB id 1419 SGL RS12550 WP 010873252.1		0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQ LFDALAAGQRVGVVKQHQSILEELKLYTQYTPDISNDLPQQDSTSFEP IYNIETP	3
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NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	EPN EWATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGTAAAFENWYEEENEDAAFTSLY	0
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NTDB id 1419 SGL RS12550 WP 010873252.1	DPN.....PAQAFENWFEEEEGDDAFTSLI	28
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		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
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NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	ETNSNFEELBYVBAFBAEPEVISEEKYLS	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	ETNSGIEELDFGDLFEQEPTVIQGEFGS.....PSSGEEDPPVRMTLDFNSPEAELD	84
NTDB id 1046 HON27 RS03130 WP 168726941.1	GQNSNFQPLPVVEAFDAESEVFSEQKVISIIDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTTSQENEVA	720
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consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	ANEQDI EAVVEALFLB ERTTETTYDPSLSSWLEQSTNR	0
NTDB id 413 AAK55817.1 141..845()		0
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NTDB id 1046 HON27 RS03130 WP 168726941.1	ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFQRTNR.....S.....IL.....	762
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consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	ATPSPSYHSHKGRMYELINXLYTALENAFEQFATBDBSLXAPYLSEELSWLKDAIFNHNYTEFSLTSTPARKS	0
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	FATFETTFSTPYKMTEDL FSSLEPALLEQADSSLYMTFISGAGTERPPXREBIYKRSBNNGYRVSAKOLENLS	0
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NTDB id 1046 HON27 RS03130 WP 168726941.1	F..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMMAWEQTERLDQNNEMIRVSADLIEKMIDLS	910
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	G E N S Y N R R S R T E S D Q E E F S R F L Y M E L N A A Q R L S D Y L S R M E D E L E R Q 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 K S S S S T	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	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	371
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
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	S R Y T S F D A L E M D S Y T S F N L S R E M L E L Y S Y K F A N T I S K Y B S T S Y L A L C S R S Y T E T Q E G M T R L V P F I S L A R L R	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	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	451
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
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	A Y R E Y S M K L N R E X N L E V N N T S Y E T D R M I L E R L Y N P Y E H Y N N A I S H G T E S F A E R Q R L A K S E E G R T A Y R A P E Q G N S Y Y Y Y	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	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	531
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 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 366311 FFX45 RS00350 WP 149817109.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	S D D G A G I N Y E X V R Q K A Y L K G L I R M E A Q S L Q S S Y Y S L F H E G F S T K S X S S F A G R G V G L D W V S S T K S T S G H Y S Y E S Y	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
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	611
NTDB id 1046 HON27 RS03130 WP 168726941.1	S D D G G 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 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 366311 FFX45 RS00350 WP 149817109.1		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 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 366311 FFX45 RS00350 WP 149817109.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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GRGTTFTIRLPETYSYKALNKKSRBBSIAFPMDSYBTRBYLPKSLYDYESEQKLYKYENKRYPLRLSEFYNR
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 0
 0
 GKGTTFTIRLPLTLSICKALCCLSDRARIAFPMDGVEDTRDYLPKDIVTD.EDGQKCKVYKGKEALLLPLYPLKDLLNYNR 690
 GQGTTFITIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN...KRYPLRLYSEFVG 1277
 0
 0
 0

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 366311 FFX45 RS00350 WP 149817109.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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RLPFRPSRYNGGKQEDDSLPVHYARANNGRILYALCYDQYTGEEAEIVYKPIECPIFRPEA|AGATYRGDGSYML|ADYLTETA
 0
 0
 0
 QLSRGSVYGGKQEEDVVRVITARGSSGNLLALQIDQVLGEE.EIVIKQIEGPPIKPPGIAGATVRGDGSIMPIADVLELI 769
 NQPIPRLNG...VMYSLPVLMIKANNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQANIA 1354
 0
 0
 0
 0

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 366311 FFX45 RS00350 WP 149817109.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

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Protein	Sequence	Score
Protein 1	...MNYKEK KIL ILDDNPETILEMVQESLNIAGFNNLTGVQSKK EAL EQLGKR SF .DL	53
Protein 2	...MK KIL LIVDDEK PIS DIKFNN MT KEGYEVV TAF N.G RE AL EQ F EAE Q P .DI	48
Protein 3	...MK KIL LIVDDEK PIS DIKFNN LA KEGYDT ITAF D.G RE AL S KEE EN P.DL	48
Protein 4	EIAQGR LRT .DSSG LWR K TLT PTVNEVHMDPT VL I VDD S IT RE LL SL SF K KAG FR VEQ ARD.G Q EAW DQ L KSG LP CD L	847
Protein 5	RQIQ STQR H KQL SEAVY.....RQ RES DERR LI M IV DD SVT VR KV TSR LL ER QGY D VV TAKD.G V D AI EQ LE NI KP .DL	1426
Protein 6	MEDAFQ NL K VM VIDD SKT IR RTA ET LL Q REG C EV ITAVD.G F EAL S K IA EAN P .DI	54
Protein 7	MS KV L V ED SPP Q RE MI SELL AK TG F EV TVATD.G V E AME Q L Q Q ST P .DV	48
Protein 8	M NA V LL VED SSQ R EM IS GI LKD HG W QV TI AC D.G V EAL EKL Q N FS P .DL	48

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NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 366311 FFX45 RS00350 WP 149817109.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
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Sequence	Position
A I I D I M L P D G S G F E V L R E I R . . . K T S T I P V I F L S A V S D I E K Q Y Q G F E L G A D D Y I V K P F R P K E L R I L S I L K R A Y P E K D D	130
I I L D L M L P E I D G L E V A K T I R . . . K T S S V P I L M L S A K D S E F D K V I G L E L G A D D Y V T K P F S N R E L Q A R V K A L L R S Q M P M V D	125
I I L D L M L P E I D G L E V A K E V R . . . K N S H V P I I M L S A K D S E F D K V I G L E I G A D D Y V T K P F S N R E L L A R V K A H L R A T E N I E S A	125
V F C D I E M P R K N G L E I L S E L Q A D E E L S S I P V A L L T S R G A D R H R K V A A K L G A T G Y F T K P Y T E K D I L D A A N R M L N G E V L L P G S	927
M L L D I E M P R M D G F E V L N L V R H H D M H Q Y M P T I I M I T S R T G E K H R E R A F S L G V S Q Y M G K P F Q E E L L E N T I D A L L V A F E S E V K S	1506
V F V D I M P R L D G Y Q T C A L I K N S Q N Y Q N I P V I M L S S K D G L F D Q A K G R V V G S D E Y L T K P F S K D E L I N A I R N H V S S	127
V V L D I V M P R M N G Y E V C R Q I K S D P R T Q S I P V V I C S S K G E E F D R Y W G M K Q G A D A Y I T K P F D P K E L V G T I K Q L L E G	121
V V L D I V M P R M N G Y E V C R R I K S D P K T K N V P V I M C S S K G E E F D R F W G M R Q G A D A Y I A K P F Q M P E L V G T I K Q L L R N	121

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NTDB id 372 SMU RS05280 WP 002262198.1	T ¹ EN ¹ SY ¹ EL ¹ IGN ¹ SL ¹ YPPA ¹ VAKK ¹ GT ¹ E ¹ LT ¹ HREFE ¹ LL ¹ HLA ¹ HTSS ¹ VTREH ¹ LLETVWGYDYEG ¹	
NTDB id 413 AAK55817.1 141..845()	TLILPTCQV.....NFS....QALITKGELEIQLTAKEYSILKVLYNNQNRIVTFDQLLEKVVWGLQYQGYENTM....	195
NTDB id 374 SMU RS06885 WP 002262930.1	GQ.EADSKPQ.PIQIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLLETVWGYDYFG.....	194
NTDB id 1419 SGL RS12550 WP 010873252.1	VAEENASGIP.EIIIGDLQILPDAFVAKKRGTEVELTHREFELLHHLATHTGQVMTREHLLLETVWGYDYFG.....	195
NTDB id 1046 HON27 RS03130 WP 168726941.1	TRKTNLSILSRFKKARGNFSEEAPTIVRSNPGTL.....R.....STVLIIDDSVMVREMLSMFTFKKADYHTETARDGQDA	997
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NTDB id 366311 FFX45 RS00350 WP 149817109.1		127
NTDB id 1417 SGL RS04200 WP 014407071.1		121
consensus		121

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NTDB id 372 SMU RS05280 WP 002262198.1	WEK ¹ LK ¹ SGLPC ¹ DL ¹ LC ¹ EM ¹ PM ¹ AN ¹ GLE ¹ TL ¹ QR ¹ QAB ¹ NK ¹ SR ¹ I ¹ V ¹ MT ¹ Y ¹ RGAQ ¹ K ¹ M ¹ Q ¹ RMAA ¹ E ¹ CA ¹ K ¹ Y ¹ RR ¹ NR ¹ RE ¹ TL ¹ LEAS ¹ Q	
NTDB id 413 AAK55817.1 141..845()	MAHIRKIRQKIEANPSK...PECLLTVK.....GLGYKLKVS.....	229
NTDB id 374 SMU RS06885 WP 002262930.1	DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMRNNA*	234
NTDB id 1419 SGL RS12550 WP 010873252.1	DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMKSYD.....	235
NTDB id 1046 HON27 RS03130 WP 168726941.1	WEK ¹ LK ¹ SGLPCDLILCDIEMPRMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEETLLEASQ	1077
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	1506
NTDB id 366311 FFX45 RS00350 WP 149817109.1		127
NTDB id 1417 SGL RS04200 WP 014407071.1		121
consensus		121

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NTDB id 372 SMU RS05280 WP 002262198.1	RLIRGEVLLDLAALSADE	229
NTDB id 413 AAK55817.1 141..845()		234
NTDB id 374 SMU RS06885 WP 002262930.1	.....	235
NTDB id 1419 SGL RS12550 WP 010873252.1	RLIRGEVLLDLAALSADE	1095
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 366311 FFX45 RS00350 WP 149817109.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus	.....	

-  non conserved
-  similar
-  ≥ 50% conserved