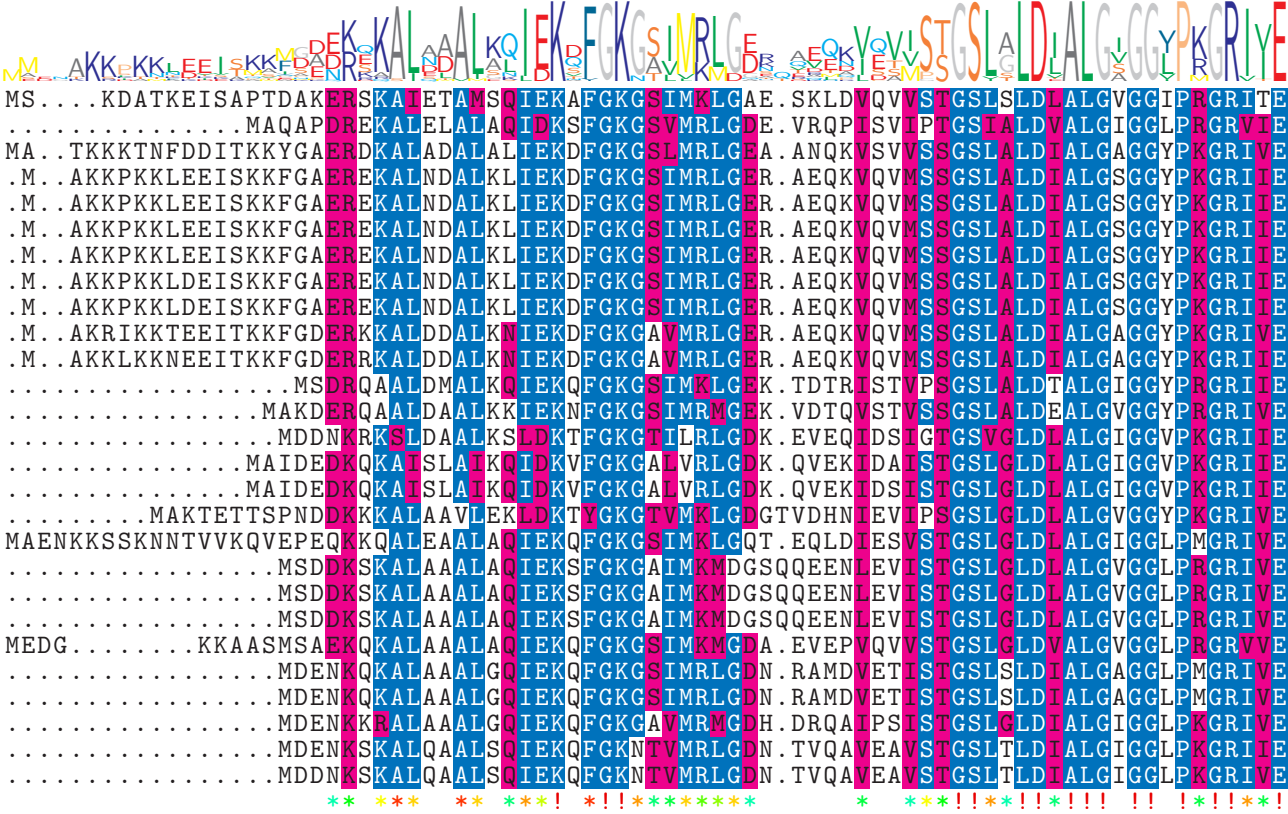


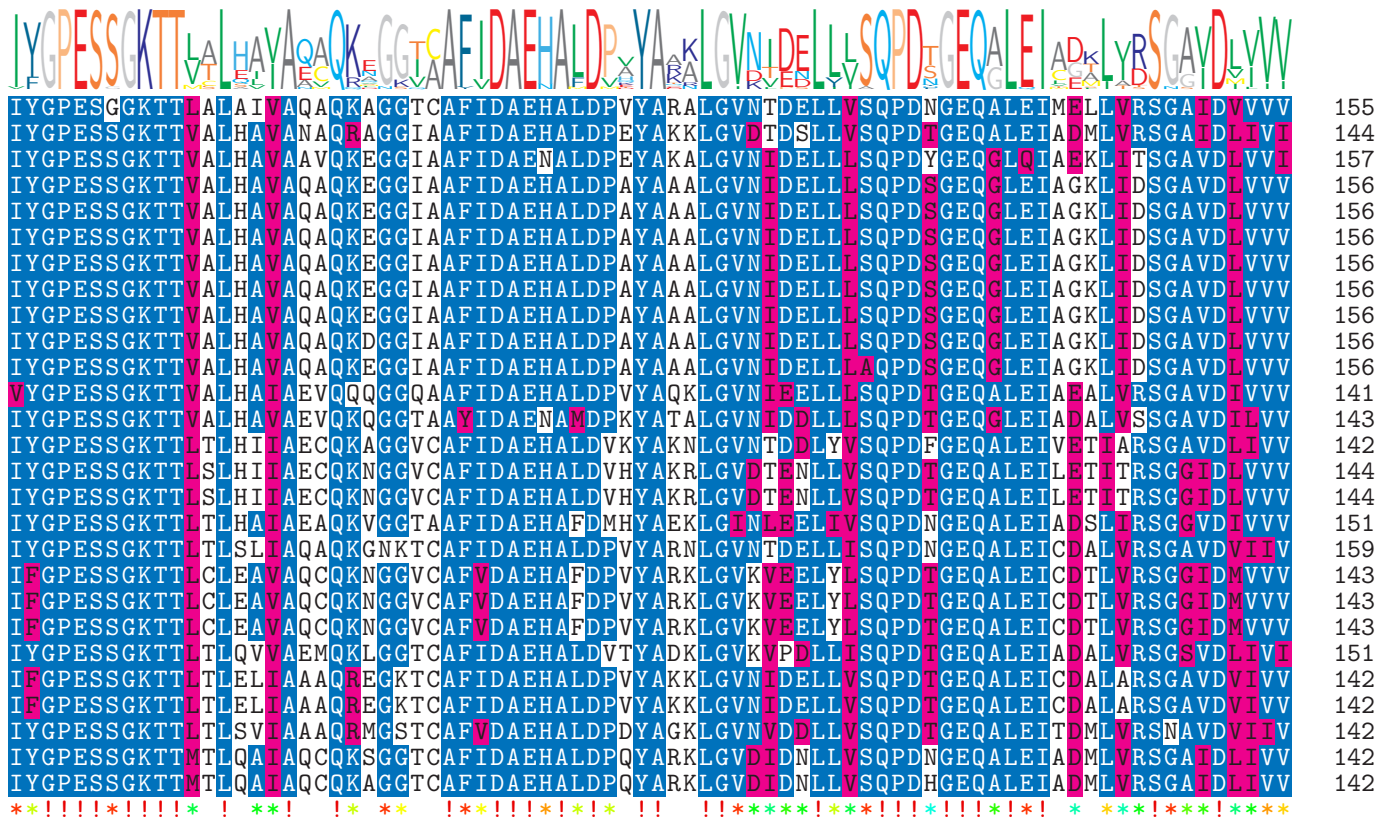
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consensus

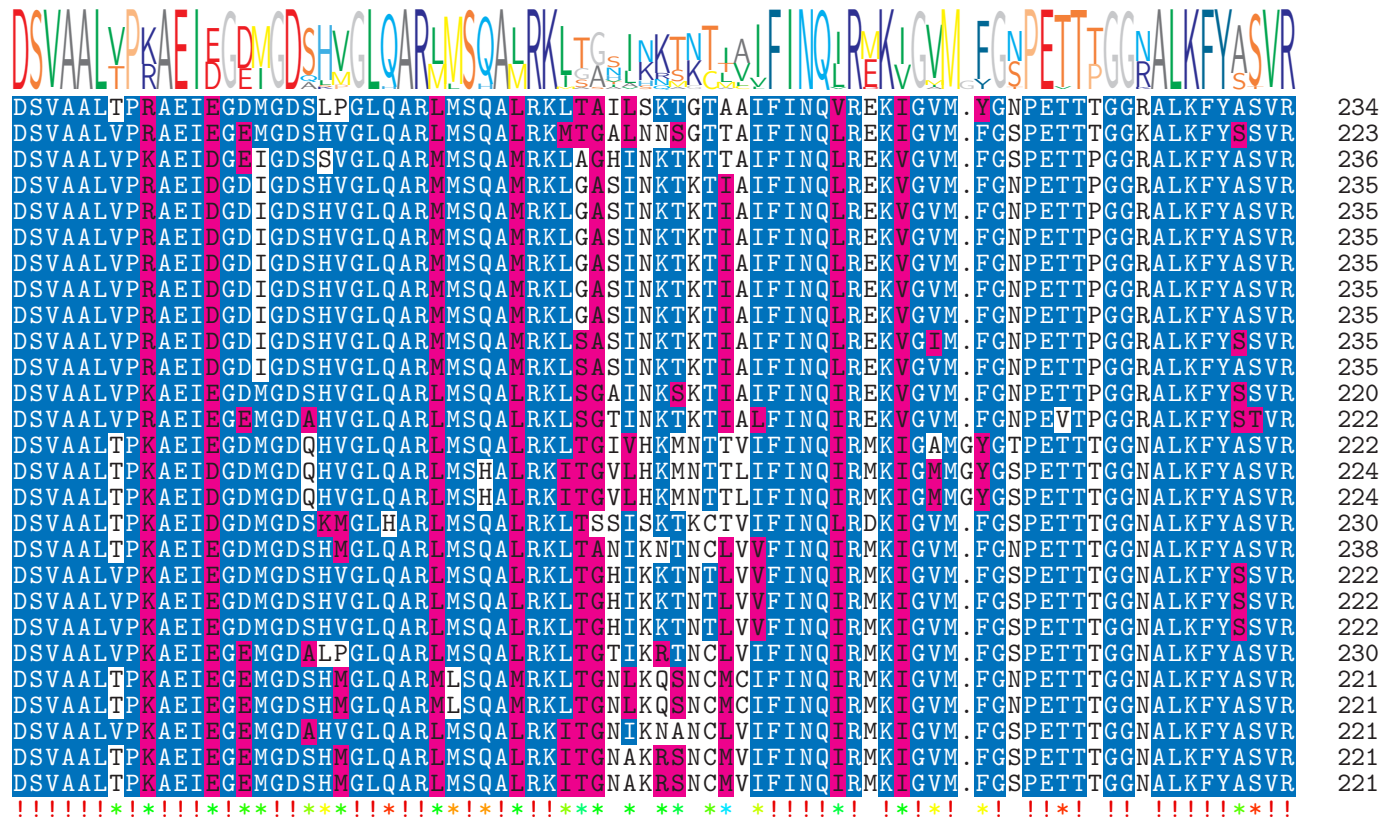


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NTDB id 1313 DR RS12030 WP 010888966.1
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consensus



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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
consensus



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NTDB id 1313 DR RS12030 WP 010888966.1	LDVRRIGQ....PTKVGND	AVANTV	KIKTVKNKVA	APFKEVELA	IVYCKG	FDFQLS	DLVGLA	ADMDI	IKKAG	SEFYSY	GDEK	310							
NTDB id 106643 ACAM48 RS15405 WP 005057169.1	LDVRRRIETLKDGT....DAV	GNRT	TRVKVVKNKV	SPPFKQAEFD	ILYCKG	ISKEG	SLIDMC	VEQGF	IRKSCS	SWFTYE	GEQ	298							
NTDB id 600 KW2 RS01765 WP 011675413.1	LDVRGSTKIEEGS.GDNKTQ	IGKITK	KVVKNKV	VAPPFKVALVD	IMF	GEGIS	STGELL	NIAVEE	GIKK	SGAW	FAYNDE	315							
NTDB id 269 KZH43 RS08665 WP 001085462.1	LDVRGNTQIKGTG.DQKETNV	GKETK	KVVKNKV	VAPPFKEAVVE	IMY	GEGIS	KTGELL	KIASDL	DI	IKKAG	AWYSYKDE	314							
NTDB id 228 SPD RS09265 WP 001085462.1	LDVRGNTQIKGTG.DQKETNV	GKETK	KVVKNKV	VAPPFKEAVVE	IMY	GEGIS	KTGELL	KIASDL	DI	IKKAG	AWYSYKDE	314							
NTDB id 194 SPR RS08825 WP 001085462.1	LDVRGNTQIKGTG.DQKETNV	GKETK	KVVKNKV	VAPPFKEAVVE	IMY	GEGIS	KTGELL	KIASDL	DI	IKKAG	AWYSYKDE	314							
NTDB id 159 SP RS09750 WP 001085462.1	LDVRGNTQIKGTG.DQKETNV	GKETK	KVVKNKV	VAPPFKEAVVE	IMY	GEGIS	KTGELL	KIASDL	DI	IKKAG	AWYSYKDE	314							
NTDB id 499 SM12261 RS08315 WP 078228268.1	LDVRGSTQIKGTG.DQKDTNV	GKETK	KVVKNKV	VAPPFKEAFVE	IMY	GEGIS	KTGELL	KIASDL	DI	IKKAG	AWYSYKDE	314							
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LDVRGSTQIKGTG.DQKDTNV	GKETK	KVVKNKV	VAPPFKEAFVE	IMY	GEGIS	KTGELL	KIASDL	DI	IKKAG	AWYSYKDE	314							
NTDB id 408 SMU RS09530 WP 002262392.1	LDVRGNTQIKGTG.EQKDSN	IGKETK	KVVKNKV	VAPPFKEAFVE	IT	Y	GEGIS	RTGEL	VKIASD	LGII	QKAG	AWYSYNGE	314						
NTDB id 453 Spy49 1753c ACI62003.1	LDVRGTTQIKGTG.DQKDS	IGKETK	KVVKNKV	VAPPFKVAEVE	IMY	GEGIS	RTGEL	VKIASD	LDII	QKAG	AW	F	SYNGE	314					
NTDB id 115 BSU 16940 NP 389576.2	LEVRRRAEQLKQGN....DVM	CNK	TKIKVVKNKV	VAPPFR	TA	EV	IMY	GEGIS	KEGE	ITD	LGTEL	DI	VQK	SCS	WYSY	EEER	295		
NTDB id 625 LCA RS02525 WP 011374196.1	LEVRRRAETIKNGT....DM	IGNR	ARIKVVKNKV	VAPPFKVAEVD	IMY	CG	GIS	RTGEL	VDMA	VEKDI	INK	SCS	WYSY	GSE	R	297			
NTDB id 1245 Cj1673c YP 002345041.1	LDVRKVAT....L.KQNE	EP	IGNRV	KVVKNKV	VAPPFRQAEFD	VMF	GEG	LS	REGEL	IDYGV	KLDI	VDK	SG	AW	F	SYKDKK	297		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IDIRRIAA....L.KQNE	QHI	GNRA	KAKVVKNKV	VAPPFREAEFD	IMF	GEGIS	KEGE	ITDYGV	KLDI	VDK	SG	AW	LSY	QDKK	299			
NTDB id 1211 C694 RS00795 WP 000963128.1	IDIRRIAS....L.KQNE	QHI	GNRA	KAKVVKNKV	VAPPFREAEFD	IMF	GEGIS	KEGE	ITDYGV	KLDI	VDK	SG	AW	LSY	QDKK	299			
NTDB id 1334 RA0C RS04870 WP 004918236.1	IDIRRSLSDTGKIKDKSGE	VIGNR	TKV	KVVKNKV	VAPPFKSAEFD	IMY	GEG	VSKV	GEILD	VATD	LDII	QK	SCS	W	F	SYQDTK	310		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	LDIRRCGV....V.KDG	DEI	IGSETK	VVVKNKV	VAPPFREVQFD	IMY	GEGIS	RMNEL	LILAE	ANGFI	KK	SG	AW	F	SYDGT	K	313		
NTDB id 1130 NGFG RS03960 WP 003688695.1	LDIRRTGS....I.KKG	EEVL	GNETR	VKV	IKNKV	VAPPFRQAEFD	ILY	GEGIS	WE	GELID	IGV	KNDI	INK	SG	AW	SYNG	AK	297	
NTDB id 1124 NGFG RS03960 WP 003688695.1	LDIRRTGS....I.KKG	EEVL	GNETR	VKV	IKNKV	VAPPFRQAEFD	ILY	GEGIS	WE	GELID	IGV	KNDI	INK	SG	AW	SYNG	AK	297	
NTDB id 1123 OK783 RS03845 WP 003688695.1	LDIRRTGS....I.KKG	EEVL	GNETR	VKV	IKNKV	VAPPFRQAEFD	ILY	GEGIS	WE	GELID	IGV	KNDI	INK	SG	AW	SYNG	AK	297	
NTDB id 1427 RS RS02760 WP 011000510.1	LDIRRIGS....I.KKG	DEVV	GNETK	VVVKNKV	VAPPFREAI	FDILY	GACV	SR	EGE	ITD	LGVE	AKV	VEK	SG	AW	SYNG	ER	305	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	LDIRRTGA....I.KEG	EEVV	GNETR	IKVVKNK	IA	APFKE	ANTQIMY	CG	CFNR	EGEL	IDLG	VKHK	MVEK	SG	AW	SYNG	DK	296	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	LDIRRTGA....I.KEG	EEVV	GNETR	IKVVKNK	IA	APFKE	ANTQIMY	CG	CFNR	EGEL	IDLG	VKHK	MVEK	SG	AW	SYNG	DK	296	
NTDB id 1205 PSJM300 05545 AFN77183.1	LDIRRTGA....V.KEG	DEVV	GSETR	VVVKNKV	VAPPFRQAEFQ	ILYCKG	CIY	NGE	ITD	LG	VQQGL	VEK	SG	AW	YAY	KGSK	296		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	LDIRRIGQ....V.KEG	DEIV	GSETK	VVVKNK	M	APPFKE	AI	FQILY	CKG	CTNQL	GELVD	LAV	QQD	DI	VQK	AG	AW	SYQGNK	296
NTDB id 1022 ACIAD RS06390 WP 004925639.1	LDIRRIGQ....V.KEG	DEI	IGSETK	VVVKNK	M	APPFRE	AI	FQILY	CKG	VNQL	GELVD	LAV	QQ	NI	VQK	AG	AW	SYQGNK	296
consensus	***!*		*	*	*	*****!*****!*****!*****!*	*	*	*****!*****!*****!*****!*	*	*	*****!*****!*****!*****!*	*	*	*****!*****!*****!*****!*	*	*	*****!*****!*****!*****!*	*

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQCKEKTIAVYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 106643 ACAM48 RS15405 WP 005057169.1	LGQCKENARNFLLENVDVANEIEKKIKKLCIGAVLTDDEVVPAPV....DF.....	346
NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGAEKAKNYLKEHQDVFEIDHKVRAAHCLDDSEVAETEEETTASKTAKAKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSENAKKYLAEHPFIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSENAKKYLAEHPFIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSENAKKYLAEHPFIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSENAKKYLAEHPFIFDEIDKQVRSKFCIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSENAKKYLADNPEIFDEIDHQVRVQFCIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSENAKKYLADNPEVFAEIDHQVRVQFCIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSENAKKFLADNPEIFDDIDHKVRVQYCLIEEDNTEEKQSSSEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSENAKRYLADHPQLFDEIDRKVRVKFCLLEESSEESAMAVASE.....E.....TDDLALDLNNGIEIED..	378
NTDB id 115 BSU 16940 NP 389576.2	LGQCGRENAKQFLKENKDIIMLMIQEQIREHYCLDNNGVVQQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQCGRENAKNYLADHEDVEDEVRLKVRAAAYCTSDVPEEDLPTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	IGQCGRENSKAEFLKENPEIADETTKATQNSMCIEGMISGSEDDE..GEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQCGRENAKALLKEDKALADEITLKIKESICSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQCGRENAKALLKEDKALADEITLKIKESICSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQCRDTPVKELTKDNPELAEELAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQCKNNAVVKLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDIS.DVEEF.....SEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQCKDNVRVWLKENPEISDEIDAKIRALNCVEMHITEGTQDET.....DGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQCKDNVRVWLKENPEISDEIDAKIRALNCVEMHITEGTQDET.....DGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQCKDNVRVWLKENPEISDEIDAKIRALNCVEMHITEGTQDET.....DGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQCRDNCREELRENAEELAREIENKVRHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQCKANACKYLLKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQCKANACKYLLKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQCKANAACKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.D..I.....	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQCKNNVIRYFEENNQIAEIEIERNIREQLLTTGTNGAVQ.I.EDEEIP.D..LL.....LES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQCKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEP.D..LL.....ES.....	349
consensus	*!!!***** * * ***** ***** * * * *	

- X non conserved
- X similar
- X ≥ 50% conserved