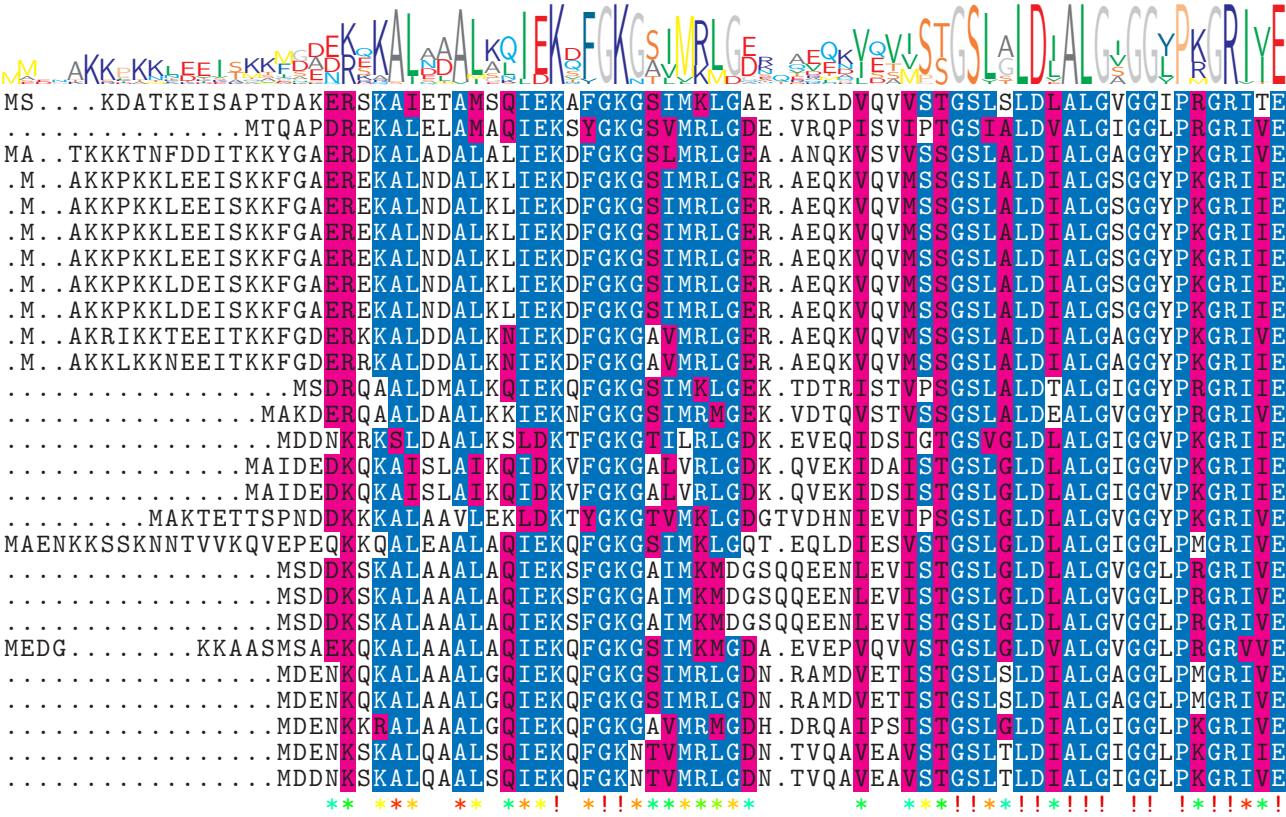


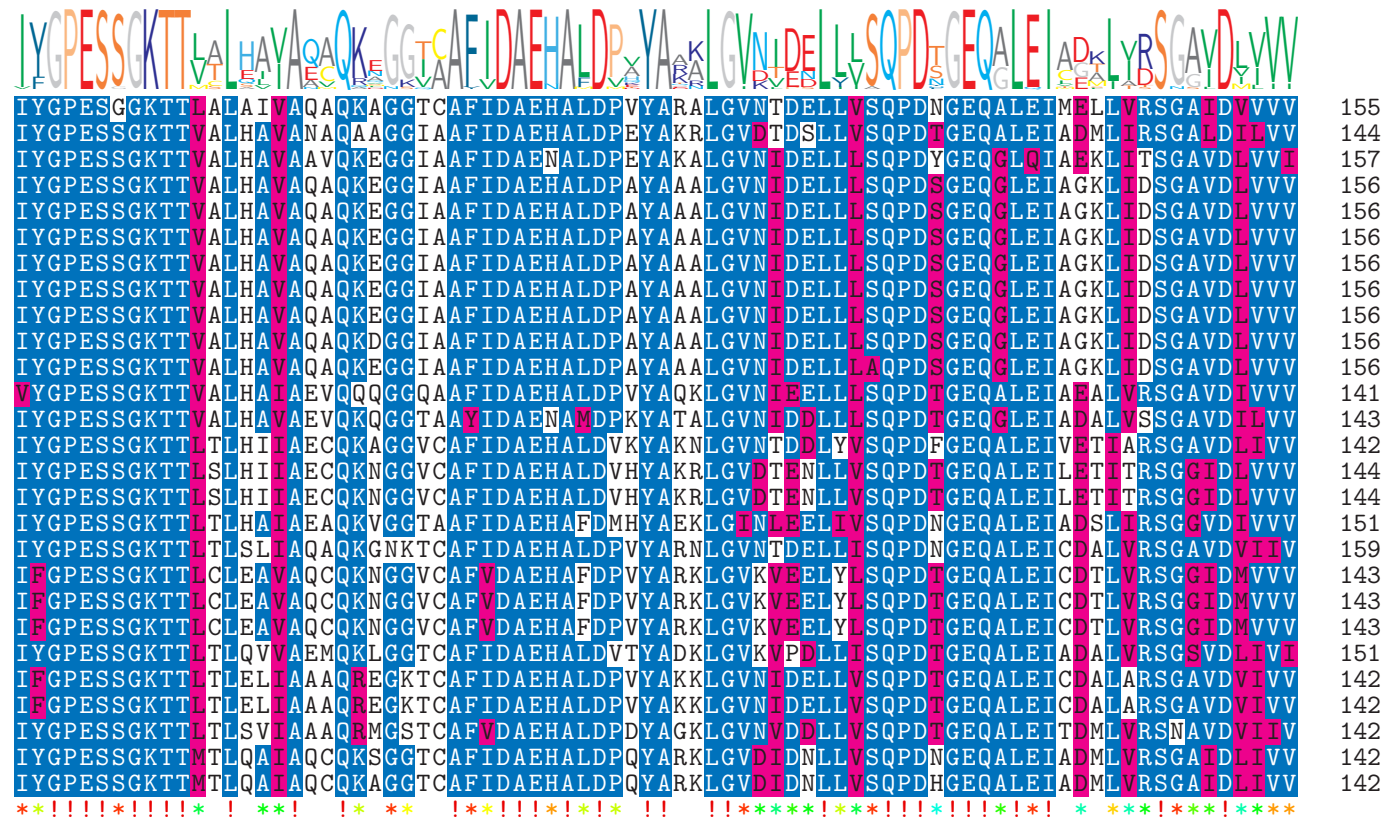
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
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consensus

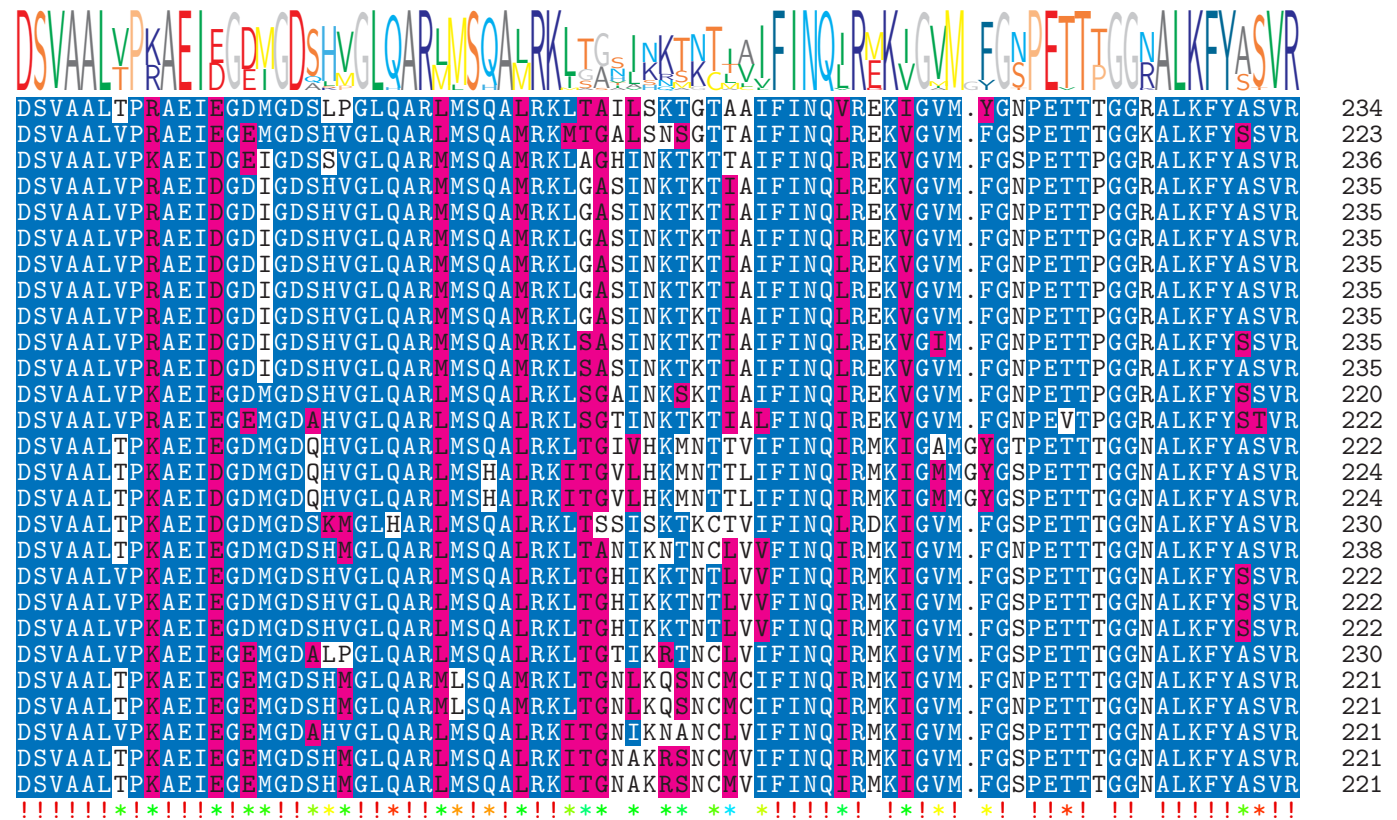


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NTDB id 1313 DR RS12030 WP 010888966.1
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consensus



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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	IKTVKNKVA	APFKE	VELAL	VYGKG	GFDQLS	DLVGL	AADMD	I	IKK	AGS	FYSY	GDER	310				
NTDB id 78762 G6N15 RS16835 WP 083090100.1	LDVRR	IETLKDGT....E	AVGNRT	RVKVVKNKV	SPPFK	QAEF	DILYGK	GISREG	SLIDM	GV	DQGF	FIRK	SGSW	FTYEGEQ	298				
NTDB id 600 KW2 RS01765 WP 011675413.1	LDVRG	STKIEEGS.GDNKT	QIGKIT	IKVVKNKV	VAPPF	KVALV	DIMF	GEGIS	STGEL	LNIA	VEEG	I	IKK	SGAW	FAYNDEK	315			
NTDB id 269 KZH43 RS08665 WP 001085462.1	LDVRG	NTQIKGTG.DQKET	NVGKET	IKVVKNKV	VAPPF	KEAVV	EIMYGEG	ISKTG	ELLKIA	SDLDI	IKK	AGAW	YSYK	DEK	314				
NTDB id 228 SPD RS09265 WP 001085462.1	LDVRG	NTQIKGTG.DQKET	NVGKET	IKVVKNKV	VAPPF	KEAVV	EIMYGEG	ISKTG	ELLKIA	SDLDI	IKK	AGAW	YSYK	DEK	314				
NTDB id 194 SPR RS08825 WP 001085462.1	LDVRG	NTQIKGTG.DQKET	NVGKET	IKVVKNKV	VAPPF	KEAVV	EIMYGEG	ISKTG	ELLKIA	SDLDI	IKK	AGAW	YSYK	DEK	314				
NTDB id 159 SP RS09750 WP 001085462.1	LDVRG	NTQIKGTG.DQKET	NVGKET	IKVVKNKV	VAPPF	KEAVV	EIMYGEG	ISKTG	ELLKIA	SDLDI	IKK	AGAW	YSYK	DEK	314				
NTDB id 499 SM12261 RS08315 WP 078228268.1	LDVRG	STQIKGTG.DQKDT	NVGKET	IKVVKNKV	VAPPF	KEAFV	EIMYGEG	ISKTG	ELLKIA	SDLDI	IKK	AGAW	YSYK	DEK	314				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LDVRG	STQIKGTG.DQKDT	NVGKET	IKVVKNKV	VAPPF	KEAFV	EIMYGEG	ISKTG	ELLKIA	SDLDI	IKK	AGAW	YSYK	DEK	314				
NTDB id 408 SMU RS09530 WP 002262392.1	LDVRG	NTQIKGTG.EQKDS	NIGKET	IKVVKNKV	VAPPF	KEAFV	EIIYGE	GISRTG	ELVKIA	SDLDI	IQK	AGAW	YSYNGE	K	314				
NTDB id 453 Spy49 1753c ACI62003.1	LDVRG	TTQIKGTG.DQKDS	IGKET	IKVVKNKV	VAPPF	KVAEV	EIMYGEG	ISRTG	ELVKIA	SDLDI	IQK	AGAW	F	SYNGE	K	314			
NTDB id 115 BSU 16940 NP 389576.2	LEVRR	AEQLKQGN....D	VMGNK	TKIKVVKNKV	VAPPF	RTAEV	DIMYGEG	ISKEGE	ITIDLG	TELDI	VQK	SGSW	YSYEEER		295				
NTDB id 625 LCA RS02525 WP 011374196.1	LEVRR	AETIKNGT....D	IGNRA	RIKVVKNKV	VAPPF	KVAEV	DIMYGG	ISRTG	GELVDM	AVEKD	I	INK	SGSW	YSYGSER	297				
NTDB id 1245 Cj1673c YP 002345041.1	LDVRK	VAT....L	KQNEEP	IGNRV	KVVKNKV	VAPPF	RQAEF	DVMFG	EGLS	REGELID	YGVKLDI	V	DKS	GAWF	SYKDKK	297			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IDIRRI	AA....L	KQNEQH	IGNRA	KA	KVVKNKV	VAPPF	REAEF	DIMFG	EGISKE	GEITIDY	GVKLDI	V	DKS	GAWLSYQDKK	299			
NTDB id 1211 C694 RS00795 WP 000963128.1	IDIRRI	AS....L	KQNEQH	IGNRA	KA	KVVKNKV	VAPPF	REAEF	DIMFG	EGISKE	GEITIDY	GVKLDI	V	DKS	GAWLSYQDKK	299			
NTDB id 1334 RAOC RS04870 WP 004918236.1	IDIRRS	LSDTGKIKDKS	GEVIGN	RTKV	KVVKNKV	VAPPF	KS	AEF	DIMYGEG	VSKVGE	ILDVAT	DLDI	IQK	SGSW	F	SYQDTK	310		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	LDIRRC	CGV....V	KDGEI	IGSE	TKVVKNKV	VAPPF	REVQF	DIMYGEG	ISRMN	ELLILA	EANG	F	IKK	SGAW	F	SYDGT	K	313	
NTDB id 1130 NGFG RS03960 WP 003688695.1	LDIRRT	TGS....I	KKGEVL	GNET	RVKVI	KNKVAPP	FRQAEF	DILYGE	GISWEG	ELIDIG	VKNDI	INK	SGAW	YSYNGA	K	297			
NTDB id 1124 NGFG RS03960 WP 003688695.1	LDIRRT	TGS....I	KKGEVL	GNET	RVKVI	KNKVAPP	FRQAEF	DILYGE	GISWEG	ELIDIG	VKNDI	INK	SGAW	YSYNGA	K	297			
NTDB id 1123 OK783 RS03845 WP 003688695.1	LDIRRT	TGS....I	KKGEVL	GNET	RVKVI	KNKVAPP	FRQAEF	DILYGE	GISWEG	ELIDIG	VKNDI	INK	SGAW	YSYNGA	K	297			
NTDB id 1427 RS RS02760 WP 011000510.1	LDIRRI	IGS....I	KKGEVL	GNET	KVVKNKV	VAPPF	REAI	F	DILYGA	VSREGE	ITIDLG	VEAK	VVEK	SGAW	YSYNGE	R	305		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	LDIRRT	TGA....I	KEGEVL	GNET	RIKVVKNK	IAAPF	KEANTQ	IMYG	GGFN	REGELID	LG	VKHK	MVEK	SGAW	YSYNGD	K	296		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	LDIRRT	TGA....I	KEGEVL	GNET	RIKVVKNK	IAAPF	KEANTQ	IMYG	GGFN	REGELID	LG	VKHK	MVEK	SGAW	YSYNGD	K	296		
NTDB id 1205 PSJM300 05545 AFN77183.1	LDIRRT	TGA....V	KEGDEV	VGSE	TRVKNKV	VAPPF	RQAEF	QILY	GKG	GTIYRN	GEI	IDL	GVQQ	LVK	SGAW	YAYK	GSK	296	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	LDIRRI	IGQ....V	KEGDEI	VGSE	TKVVKNK	MAPPF	KEAIF	QILY	GKG	TNQL	GELVD	LAV	QQ	DIVQK	AGAW	YSYQGN	K	296	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	LDIRRI	IGQ....V	KEGDEI	IGSE	TKVVKNK	MAPPF	REAI	F	QILY	GKG	VNQL	GELVD	LAV	QQN	IVQK	AGAW	YSYQGN	K	296
consensus	***!*		*	*	*	*	*	*****!*****!*	*	*	*****!*****	*****	*	***	!	!*****!	*		

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NTDB id 1313 DR RS12030 WP 010888966.1	IGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAA.....PEAAEA.....	363
NTDB id 78762 G6N15 RS16835 WP 083090100.1	LGQGGKENARAFLEVENTDVANEIEKKIKKELGIGAVVTDDDDVLPAPV....DF.....	346
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NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED..	383
NTDB id 453 Spy49 1753c ACI62003.1	IGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNNGIEIED..	378
NTDB id 115 BSU 16940 NP 389576.2	LGQGGRENAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	LGQGGRENSKAFLEKENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGGRENAKALLKEDKALADEITLTIKESIGSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGGRENAKALLKEDKALADEITLTIKESIGSNEEIMPLPDEP..LEEM.E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGRDITVKELTKDNPELAELEIAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGGKNNAVKWLEKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEF.....SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....DGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGGKANACKYLLKENPEIAKTLDKKLREMLLNPNENMQLIAETSSAADDV.EFGAV.....PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGGKANAAKYLEENPEIGQIEEQIRAKLLVTSANTKATPVAEDLADA.D..I.....	347
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ.I.EDEEEP.D..LL.....LES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEP.D..LL.....ES.....	349
consensus	*!!!!***** ** ***** ***** ** *	

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved