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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 527 SMSK321 RS11065 WP 001085454.1
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NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	I	IKKSGAWFAYN	312			
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NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDL	D	IIKKAGAWYSYK	311		
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGEGISRTGELVKIASDL	D	IIQKAGAWFSYN	311		
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DM	IGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEK	DI	INKSGSWYSYG	294		
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKEVELALVYGKGF	QDLS	DLVGLAADMD	IIKKAGSFYSYG	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGV	KLDIV	DKSGAWFSYK	294		
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFR	EA	EFDIMFGEGISKEGEIIDYGV	KLDIVDKSGAWLSYQ	296	
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSA	AEFDIMYEGGVSKVGEILD	VATDLD	IIQKSGSWFSYQ	307	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEI	IGSETKVVKNKVAPPFR	EVQFDIMYEGEGISRMNELL	ILAEANGFIKKSGAWFSYD	310		
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKN	DIINKSGAWYSYN	294		
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKN	DIINKSGAWYSYN	294		
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EEVLGNETRVKVIKNKVAPPFRQAEFD	DILYEGEGISWEGELIDIGVKN	DIINKSGAWYSYN	294		
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NTDB id 188082 BBV18 RS17050 WP 000963150.1	SVRLDIRRIGA....V.KEG	DNVVGSETRVKVVKNKIAAPFKQAEFQ	ILYGE	GINFYGELVDLGVKEK	LIEKAGAWYSYN	295	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELIDLG	VKHKMVEKSGAWYSYN	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNR	REGELIDLG	VKHKMVEKSGAWYSYN	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGSETRVKVVKNKVAPPFRQAEFQ	ILYGKGIYRNGE	IIDLG	VQQGLVEKSGAWYAYK	293	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFK	EA	IFQILYGKGTNQLGELVD	LAVQQDIVQKAGAWYSYQ	293	
consensus	*!!**!* *	* ** *****!!*!!*!!*!!*!*	*	*****!!*!!*!!*!!*!!*	***** *	***** *	***** ! !*****!

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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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DEKIGQQSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE . . . PKKEEA . VNEEVPLDLGDELEIE	385
DEKIGQQSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE . . . PKKEEA . VNEEVPLDLGDELEIE	385
DEKIGQQSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE . . . PKKEEA . VNEEVPLDLGDELEIE	385
DEKIGQQSENAKKYLAHDNPEIFDEIDHQRVVFGLIDGEEIAES . . . KKDE . . . AAQVDS . VNEEVTLDLGDELEIE	381
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GEKIGQQSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEEESAMAVASE E TDDLALDLNGIEIE	377
GEKIGQQSENAKKFLADNPEIFFDIDHKVRVQYGLIEDNTEEKQSSKEK ETDEK . ADKNLVLELDDTIELE	382
EERLGQGGRENAAKQFLKENKDIMLMIQEQIREHYGLDNNGVVQQAEETQEEL.EFE.E	348
SERIGQGGRENAAKYLADHEDVEDEVRLKVRAAYGISDVPEEDLPPTTEDE.QI.NILPDDST EE	355
DERIGQGEKTTIATYIAERPMEQEIHDRVMMAAIRAGNAGEAPALAPAPAPEAA . . EA	363
DKKLGQGGRENSKAFLKENPEISDEITKAIQNSMGTIEGM ISGSDDGE . . . EE	343
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DKKLGQGGRENAAKALLKEDKALADEITLKIKESIGSNEE . . . IMPLPDEPL . . . EE . ME	347
DTKLGGGRDTPVKELIKDNPELAEELEAKIREKLQAK	343
GTKIGQGGKNNNAVKWLKENPEIADKLEQIRNTLTASNPN . . . SVLKATASDSN . . DESDVEEFSESEL . . .	372
GAKIGQGGKDNVRVWVLKENPEISDEIDAKIRALNGVEMH . . . ITEG T . . QDETGDGERPEE . . .	348
GAKIGQGGKDNVRVWVLKENPEISDEIDAKIRALNGVEMH . . . ITEG T . . QDETGDGERPEE . . .	348
GAKIGQGGKDNVRVWVLKENPEISDEIDAKIRALNGVEMH . . . ITEG T . . QDETGDGERPEE . . .	348
GERIGQGGRDNCREFLRENAELAREIENKRVREHLGVTPM . . . GAVTLAE.EVE . . ED	352
GEKIGQGGKANATTWLKENPATACKIEKRRELLLSNQ . . . ATPDFAVD . . . DSEGVAETNEDF . . .	353
GDKIGQGGKANACKYLYKENPEIAKTLDKKLREMMLNPEN . . . MQLIAETSSAA . DDVEFGAVPEEF . . .	354
GDKIGQGGKANACKYLYKENPEIAKTLDKKLREMMLNPEN . . . MQLIAETSSAA . DDVEFGAVPEEF . . .	354
GSKIGQGGKANAAKYLEENPEIGQIEEQIRAKLLVTSA . . . NTKATPVAEDL . . ADADI	347
GNKIGQGGKNNNVIRYLEENPQISTEIEAVIREQLLTKAS . . . DQTAA.HDETE . . EEPDLLS	349
GNKIGQGGKNNNVIRIFYENNQIAEIERNIEREQLLTGT . . . NGAVQ.I.EDE . . EEPDLLS	349
!!** ** ***** ** *	

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
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NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

 non conserved
 similar
 ≥ 50% conserved