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NTDB id 600 KW2 RS01765 WP 011675413.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	E	Y	A	K	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	Y	G	E	Q	G	L	Q	I	A	E	K	L	I	T	S	G	A	V	D	L	154	
NTDB id 269 KZH43 RS08665 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 228 SPD RS09265 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 194 SPR RS08825 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 159 SP RS09750 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 499 SM12261 RS08315 WP 078228268.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 453 Spy49 1753c ACI62003.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	A	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 408 SMU RS09530 WP 002262392.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	Q	K	D	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	153			
NTDB id 115 BSU 16940 NP 389576.2	I	V	E	V	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	E	V	Q	Q	G	G	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	Q	K	L	G	V	N	I	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	E	A	L	V	R	S	G	A	V	D	I	138				
NTDB id 625 LCA RS02525 WP 011374196.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	E	V	Q	Q	G	G	T	A	A	Y	I	D	A	E	N	A	M	D	P	K	Y	A	T	A	L	G	V	N	I	D	D	L	L	S	Q	P	D	T	G	E	Q	G	L	E	I	A	D	A	L	V	S	S	G	A	V	D	I	140		
NTDB id 1313 DR RS12030 WP 010888966.1	I	T	E	I	Y	G	P	E	S	G	K	T	T	L	A	L	A	I	V	A	Q	A	Q	K	A	G	C	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	A	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	M	E	L	L	V	R	S	G	A	T	D	V	152	
NTDB id 1245 Cj1673c YP 002345041.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	I	A	E	C	Q	K	A	G	V	C	A	F	I	D	A	E	H	A	L	D	V	K	Y	A	K	N	L	G	V	N	I	D	D	L	Y	V	S	Q	P	D	F	G	E	Q	A	L	E	I	V	E	T	T	A	R	S	G	A	V	D	L	139		
NTDB id 1211 C694 RS00795 WP 000963128.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	T	E	N	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	T	T	R	S	G	I	D	L	141		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	T	E	N	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	T	T	R	S	G	I	D	L	141		
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	A	V	A	E	A	Q	K	V	G	G	T	A	A	F	I	D	A	E	H	A	F	D	M	H	Y	A	E	K	L	G	I	N	L	E	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	S	L	T	R	S	G	A	V	D	I	148	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	S	L	A	A	Q	K	G	N	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	N	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	C	D	A	L	V	R	S	G	A	V	D	V	156		
NTDB id 1130 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	I	D	M	140		
NTDB id 1124 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	I	D	M	140		
NTDB id 1123 OK783 RS03845 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	I	D	M	140		
NTDB id 1427 RS RS02760 WP 011000510.1	V	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	Q	V	V	A	E	M	Q	K	L	G	G	T	C	A	F	I	D	A	E	H	A	L	D	V	T	Y	A	D	K	L	G	V	K	V	P	D	L	L	I	S	Q	P	D	T	G	E	Q	A	L	E	I	A	D	A	L	V	R	S	G	S	V	D	L	148
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	M	T	L	Q	A	I	A	Q	C	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	V	S	Q	P	D	H	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	I	D	L	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	M	T	L	Q	A	I	A	Q	C	Q	K	S	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	I	D	L	139
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	V	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	V	139
NTDB id 1155306 OM978 RS04725 WP 233007960.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	Q	V	V	A	E	A	Q	R	M	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	N	V	D	D	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	M	L	V	R	S	A	A	V	D	V	139
NTDB id 1205 PSJM300 05545 AFN77183.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	S	V	I	A	A	A	Q	R	M	G	S	T	C	A	F	V	D	A	E	H	A	L	D	P	D	Y	A	G	K	L	G	V	N	V	D	D	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	T	D	M	L	V	R	S	N					

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTKI	GKIKTKVVK	KNKVAPPF	KVALVDIMF	GEGISST	GELLNIA	VEEGTI	KKSGAW	FAYN	312				
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISKT	GELLKIAS	SDLDI	IKKAGAW	YSYK	311				
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISKT	GELLKIAS	SDLDI	IKKAGAW	YSYK	311				
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISKT	GELLKIAS	SDLDI	IKKAGAW	YSYK	311				
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISKT	GELLKIAS	SDLDI	IKKAGAW	YSYK	311				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISKT	GELLKIAS	SDLDI	IKKAGAW	YSYK	311				
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISKT	GELLKIAS	SDLDI	IKKAGAW	YSYK	311				
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.EQK	SSNMGKETK	KVVKNKVAPPF	KVAEVEIMY	GEGISRT	GELVKIAS	SDLDI	IQKAGAW	FSYN	311				
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQK	SSNMGKETK	KVVKNKVAPPF	KEAVVEIMY	GEGISRT	GELVKIAS	SDLDI	IQKAGAW	FSYN	311				
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN....	DVMGNKTKI	KVVKNKVAPPF	RTAEVDIMY	GEGISKE	GEIIDL	GTGLD	IVQKSG	SWSYE	292				
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT....	DMIGNRAR	KVVKNKVAPPF	KVAEVDIMY	GEGISRT	GELVDM	AVEKDI	INKSG	SWSYG	294				
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....	PTKVGND	AVANTV	KTKTVKNK	VAAAPPF	KEVELAL	VYCKG	FDQLSD	LVGLA	ADMDI	IKKAG	SFYSY	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....	L.KQNE	EPIGNRV	VKVVKNKVAPPF	RQAEFD	VMFGEGL	SREGEL	IDYGV	KLDI	VDKSG	AWFSY	294		
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....	L.KQNE	QHIGNRA	KAQVVKNKVAPPF	REA	AEFDIMF	GEGISKE	GEI	IDYGV	KLDI	VDKSG	AWLSY	296	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....	L.KQNE	QHIGNRA	KAQVVKNKVAPPF	REA	AEFDIMF	GEGISKE	GEI	IDYGV	KLDI	VDKSG	AWLSY	296	
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKS	GEVIGNRT	KVVKVKNKVAPPF	KS	AEFDIMY	GEGVSK	VGEILD	VATDL	DI	IQKSG	SWFSY	307		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....	V.KDGD	EIIIGSETK	VVVKNKVAPPF	RE	VQFDIMY	GEGIS	RMNELL	ILAE	ANGFI	KKSGAW	FSYD	310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....	I.KKGE	EVLGNETR	VKVIKNKVAPPF	RQAEFD	ILY	GEGISWE	GEL	IDIG	VKNDI	INKSG	AWSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....	I.KKGE	EVLGNETR	VKVIKNKVAPPF	RQAEFD	ILY	GEGISWE	GEL	IDIG	VKNDI	INKSG	AWSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....	I.KKGE	EVLGNETR	VKVIKNKVAPPF	RQAEFD	ILY	GEGISWE	GEL	IDIG	VKNDI	INKSG	AWSYN	294	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....	I.KKGE	EVVGNETR	VKVVKNKVAPPF	REA	IFDILY	GACVSR	EGE	IDL	GVEAK	VVEKSG	AWSYN	302	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....	V.KEG	DEIIGSETK	VVVKNKVAPPF	RE	AI	FQILY	CKGN	NQLGEL	VDLAV	QQDI	VQKAG	AWSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....	V.KEG	DEIIGSETK	VVVKNKVAPPF	RE	AI	FQILY	CKGN	NQLGEL	VDLAV	QQDI	VQKAG	AWSYQ	293
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....	I.KEG	EVVGNETR	I	KVVKNKIA	APPFKE	ANTQIMY	CGFN	REGEL	IDL	GVKHK	MVEKSG	AWSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....	I.KEG	EVVGNETR	I	KVVKNKIA	APPFKE	ANTQIMY	CGFN	REGEL	IDL	GVKHK	MVEKSG	AWSYN	293
NTDB id 1155306 OM978 RS04725 WP 233007960.1	SVRLDIRRTGS....	V.KDGD	EVTGNETR	VVVKNKVAPPF	RQAEFI	IMY	GAGISK	DGEL	VDL	GVLHKL	LDKAG	AWYAYK	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....	V.KEG	DEVVGETR	VVVKNKVAPPF	RQAEFQ	ILY	GKGI	YRNGE	IDL	GVQQGL	VVEKSG	AWYAYK	293	
consensus	*!!**!*!	*	**	*****!***!!*!!*!!*!	*	*****!*	***	*****	*	***	!*	***!*		

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGGQAEKAKNYLKEHQDVFEIDHKVRAAHGILDDSEVAETEETTASK.TKAKAKKEEKAVETEEIELELED...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCIDGEEVSEQDTEENKKDE....PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGGQSENAKKYLADNPEVFAEIDHQVVRVQFCIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEI	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGGQSENAKKYLADNPEIFDEIDHQVVRVQFCIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDLEI	380
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGGQSENAKRYLADHPQLFDEIDRKVRVKFCILEESEEEESAMAVASE.....E.....TDDLALDLNNGIEI	376
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGGQSENAKKFLADNPEIFDDIDHKVVRVQFCILEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIEL	381
NTDB id 115 BSU 16940 NP 389576.2	EERLGGQRENAKQFLKENKDIMLMIQEQTREHYCIDNNGVVQQQAEEETQEEL..EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQRENAKNYLADHEDVEDEVRLKVRVAAAYCISDVPEEDLPTTEDE.QI..NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQCKEKTIAIYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPA.....PAAPEA.....AEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADEITKATQNSMCIEGMISGSEDE.....GEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLTKESICSNEEIMPLPDEP.....LEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLTKESICSNEEIMPLPDEP.....LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDITVKELIKDNPEIAEELAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQCKNNAVKWLKENPEIADKLEQETRNTLASNPNSVLKATASDSNDESDVEEFSEE.....EL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVRVWLKENPEISDEIDAKTRALNCVEMHI.....TEGTQDETDGERPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVRVWLKENPEISDEIDAKTRALNCVEMHI.....TEGTQDETDGERPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGGQKDNVRVWLKENPEISDEIDAKTRALNCVEMHI.....TEGTQDETDGERPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGGGRDNCREFLRNAREIENKVRREHLGVTPMGAVTLAAEEVEED.....	352
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQCKNNVIRYLEENPCISTEIEAVIREQLLTKASDQTAAHDET.....EEEPDL.....LES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQCKNNVIRYFEENPCIAEIERNIREQLLTTGTNGAVQI.ED.....EEEPDL.....LLES.....	349
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGGQKANACKYLKENPEIAKTLDKKIREMLLNPNEMQLIAETSSAADDVEFGAVPEE.....F.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGGQKANACKYLKENPEIAKTLDKKIREMLLNPNEMQLIAETSSAADDVEFGAVPEE.....F.....	354
NTDB id 1155306 OM978 RS04725 WP 233007960.1	GNKIGGQKANAMKYLQENPAVAKEIEAELRRMLLEPSK.....GAPSPAEDFGMVPED.....AEADL.....	352
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGGQKANAAKYLEENPEIQQEIEQQIRAKLLVTSAN.....TKATPVAED.....L.....ADADI.....	347
consensus	**!!!** ** ** ** **	

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	E.LEE	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 115 BSU 16940 NP 389576.2	....	348
NTDB id 625 LCA RS02525 WP 011374196.1	....	355
NTDB id 1313 DR RS12030 WP 010888966.1	....	363
NTDB id 1245 Cj1673c YP 002345041.1	....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	....	348
NTDB id 1427 RS RS02760 WP 011000510.1	....	352
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	....	349
NTDB id 1165 A1552VC RS01565 WP 000344154.1	....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	....	354
NTDB id 1155306 OM978 RS04725 WP 233007960.1	....	352
NTDB id 1205 PSJM300 05545 AFN77183.1	....	347

consensus

- non conserved
- similar
- ≥ 50% conserved