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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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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 0782228268.1	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	A	Y	A	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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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 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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	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 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	K	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	L	140	
NTDB id 1092387	ACL9SD	RS09555	WP 035338734.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	I	A	E	V	Q	Q	Q	G	G	Q	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	Q	K	L	G	V	N	I	D	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	L	138	
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	I	A	E	V	Q	Q	Q	G	G	Q	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	Q	K	L	G	V	N	I	E	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	L	138	
NTDB id 1313	DR	RS12030	WP 010888966.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	A	L	A	I	V	A	Q	A	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	A	L	G	V	N	T	D	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	M	E	L	L	V	R	S	G	A	V	D	L	152	
NTDB id 1245	Cj1673c	YP 002345041.1		I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	I	I	A	E	C	Q	K	A	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	K	Y	A	K	N	L	G	V	N	T	D	D	L	Y	V	S	Q	P	D	F	G	E	Q	A	L	E	I	V	E	T	I	A	R	S	G	A	V	D	L	139
NTDB id 1211	C694	RS00795	WP 000963128.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	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	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	G	I	D	L	141	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	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	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	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	I	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	E	L	I	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	S	L	T	R	S	G	G	V	D	L	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	I	A	Q	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	T	D	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	C	D	A	L	V	R	S	G	A	V	D	L	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	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	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	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	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	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	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	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 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	L	G	V	N	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	L	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	L	G	V	N	I	D	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	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	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 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	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 1205																																																																																				



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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKI	TKIKVVKNKVAPPFKVALVDIMF	GEGISSTGELINIAVEEGI	TKKSGAWFAYN	312	
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311	
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311	
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311	
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311	
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311	
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311	
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFV	EIIYEGEGISRTGELVKIASD	LGIQKAGAWYSYN	311	
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEV	EIMYGEGISRTGELVKIASDL	DIQKAGAWFSYN	311	
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRRAETIKNGT....	DMIGNRARIKVVKNKVAPPFKVAEV	DIMYGGISRTGELVDMAVEK	DIINKSGSWYSYG	294	
NTDB id 1092387	ACL9SD	RS09555	WP 035338734.1	SVRLEVRRRAEQLKQGN....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEI	IDLGTELDIVQKSGAWYSYQ	292	
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRRAEQLKQGN....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEI	IDLGTELDIVQKSGSWYSYE	292	
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....	PTKVGNDAVANTVKIKTVKNKVA	APFKEVELALVYGGKGF	DQLSDLVGLAADM	DIKKAGSFYSYG	307
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....	L.KQNEEPIGNRVKIKVVKNKVAPPFR	QAEFDVMFGEGLSREGEL	IDYGVKLDIVDKSGAWFSYK	294	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....	L.KQNEQHIGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLDIVDKSGAWLSYQ	296	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....	L.KQNEQHIGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLDIVDKSGAWLSYQ	296	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRSLSDTGKIKDKS	GEVIGNRTKIKVVKNKVAPPFKS	AEFDIMYGEVSKVGEI	LDVATDLDIQKSGSWFSYQ	307	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....	V.KDGDEIIGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	LILAEANGFIKKSGAWFSYD	310	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....	I.KKGEEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....	I.KKGEEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....	I.KKGEEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....	I.KKGDEVGNETKIKVVKNKVAPPFR	EAIQFDILYGAGVSR	EGEIIDLGVEAKVVEKSGAWYSYN	302	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....	I.KEGEEVGNETRIKVVKNKIAAPF	KEANTQIMYGGFNREGEL	IDLGVKHKMVEKSGAWYSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....	I.KEGEEVGNETRIKVVKNKIAAPF	KEANTQIMYGGFNREGEL	IDLGVKHKMVEKSGAWYSYN	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....	V.KEGDEIVGSETKIKVVKNKMAPPF	KEAIFQIILYGGKTNQLGEL	VDLAVQQDIVQKAGAWYSYQ	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....	V.KEGDEIVGSETKIKVVKNKMAPPF	KEAIFQIILYGGKTNQLGEL	VDLAVQQDIVQKAGAWYSYQ	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....	V.KEGDEVVGS	ETRVKVVKNKVAPPFRQAEFQ	IILYGGKIYENGEIIDLG	VQQGLVEKSGAWYAYK	293
consensus				*! ! ! * * ! *	*	* * * * * ! * * ! ! ! * * ! * *	* * * * * ! * * * * * * * * * * * * * * * ! * * * * ! * * * * !		

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEETASKTKAKAKKEEKAVETEEIELELED....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAKKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAKKYLADNPEVFAEIDHQVVRVQFGLIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAKKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAKRYLADHPQLFDEIDRKRVRKFGLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVRRAAYGISDVPEEDLPTT...EDEQIN.....ILPDDSTEE..	355
NTDB id 1092387 ACL9SD RS09555 WP 035338734.1	EERLGGGRENAKQFLKENKDILLMIQEQUIREHYGLDTGGVVPQAQEDAQAQEELE.....F.....	348
NTDB id 115 BSU 16940 NP 389576.2	EERLGGGRENAKQFLKENKDILLMIQEQUIREHYGLDNNGVVQQAEETQ..EELE.....FEE.....	348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADIEITKAIQNSMGIEMMI....SGSEDDE..GEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDEP..LEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDEP..LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDTRVKELIKDNPELAEELEAKIREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGXNNAVKWLKENPEIADKLEQEI RNTLASNPNS....VLKATASDSNDESVDVEE..FSEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDET.....GE..RPEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDET.....GE..RPEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDET.....GE..RPEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNCREFLRENAREIENKVRHGLVTPMG....AV.TLAEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQKGANACKYLYKENPEIAKTLDKKLRREMLLNPNM....QLIAETSSAADDVEFGA..VPEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQKGANACKYLYKENPEIAKTLDKKLRREMLLNPNM....QLIAETSSAADDVEFGA..VPEEF.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQKKNVIRYFEENNQIAEIEIERNIREQLLTTGTN....GAVQ.I.EDEEEDP..L.LLES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQKKNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEEEDP..L.LLES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQKGANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADAD..I.....	347
consensus	**!!!***** ** ***** ***** ** *	

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 625 LCA RS02525 WP 011374196.1	...	355
NTDB id 1092387 ACL9SD RS09555 WP 035338734.1	...	348
NTDB id 115 BSU 16940 NP 389576.2	...	348
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 1165 A1552VC RS01565 WP 000344154.1	...	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved  
 similar  
 ≥ 50% conserved