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NTDB id 600 KW2 RS01765 WP 011675413.1	VV	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	S	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	233					
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 228 SPD RS09265 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 194 SPR RS08825 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 159 SP RS09750 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 499 SM12261 RS08315 WP 078228268.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 453 Spy49 1753c ACI62003.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232		
NTDB id 408 SMU RS09530 WP 002262392.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	I	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	232		
NTDB id 115 BSU 16940 NP 389576.2	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	I	A	I	F	I	N	Q	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	217
NTDB id 625 LCA RS02525 WP 011374196.1	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	I	A	L	F	I	N	Q	I	R	E	K	V	G	V	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	219
NTDB id 1313 DR RS12030 WP 010888966.1	V	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	I	L	S	K	T	G	T	A	A	I	F	I	N	Q	V	R	E	K	I	G	V	M	.	Y	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	231
NTDB id 73701 FME97 RS00035 WP 141427370.1	I	V	I	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	A	K	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	T	V	C	I	F	I	N	Q	L	R	D	K	I	G	I	V	.	Y	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	224
NTDB id 1334 RAOC RS04870 WP 004918236.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	M	G	D	S	K	M	G	L	H	A	R	L	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	227	
NTDB id 1245 Cj1673c YP 002345041.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	I	V	H	K	M	N	T	T	V	I	F	I	N	Q	I	R	M	K	I	G	A	M	G	Y	G	T	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	219
NTDB id 1214 NCTC11637 00359 SQJ03206.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	T	L	I	F	I	N	Q	I	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	221	
NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	T	L	I	F	I	N	Q	I	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	221	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	T	N	T	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	219	
NTDB id 1124 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	T	N	T	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	219	
NTDB id 1123 OK783 RS03845 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	T	N	T	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	219	
NTDB id 1427 RS RS02760 WP 011000510.1	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	T	I	K	R	T	N	C	L	V	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	227
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	M	L	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G								

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTK....	IEEGSGDNKTQ	IGKI	TKI	KVVKNKVAPPFK	VALVD	IMFGEGISST	GELLNI	AVEEGI	TKKSGAW	308		
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQ....	IKGTGDQK	ETN	VGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISKT	GELLKIAS	SDLDI	IKKAGAW	307		
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQ....	IKGTGDQK	ETN	VGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISKT	GELLKIAS	SDLDI	IKKAGAW	307		
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQ....	IKGTGDQK	ETN	VGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISKT	GELLKIAS	SDLDI	IKKAGAW	307		
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQ....	IKGTGDQK	ETN	VGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISKT	GELLKIAS	SDLDI	IKKAGAW	307		
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGNTQ....	IKGTGDQK	ETN	VGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISKT	GELLKIAS	SDLDI	IKKAGAW	307		
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGNTQ....	IKGTGDQK	ETN	VGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISKT	GELLKIAS	SDLDI	IKKAGAW	307		
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQ....	IKGTGDQK	DSS	IGKETK	IKVVKNKVAPPFKE	AVVE	IMYGGEGISRT	GELVKIAS	SDLDI	IKKAGAW	307		
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQ....	IKGTGEQK	DSN	IGKETK	IKVVKNKVAPPFKE	AVVE	IIYGGEGISRT	GELVKIAS	SDLGI	IKKAGAW	307		
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQ....	LKQGN....	DV	MGNKTK	IKVVKNKVAPPFRT	AEVD	IMYGGEGISKE	GEITD	LGTELD	IVQKSGSW	288		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAET....	IKNGT....	DM	IGNRAR	IKVVKNKVAPPFKE	AVVE	IMYGGEGISRT	GELVDM	AVEKDI	INKSGSW	290		
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQP....	TKVG....	NDA	VANTVK	IKTVKNKVAAPPFKE	VELAL	LVYGGKGF	QDLS	DLVGLA	ADMDI	IKKAGSF	303	
NTDB id 73701	FME97	RS00035	WP 141427370.1	SVRIDIRRMV....	IKDG....	EE	QLGTR	TKV	KVVKNKVAPPFK	RAEFD	IMFGEGISK	IGEITD	LGVDYGV	LKKAGSW	295	
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLS	DTGKIKDKS...	GEV	IGNR	TKV	KVVKNKVAPPFK	SAEFD	IMYGGEGVSK	VGEILD	VATDL	DI	IKKSGSW	303
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVRKVAT....	LKQN....	EEP	IGNRVK	VVVKNKVAPPFR	QAEFD	DV	MFGEGLSR	EDELIDY	GVKLD	DIVDK	SGAW	290	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....	LKQN....	EQH	IGNRAK	AKVVKNKVAPPF	REAEFD	IMFGEGISKE	GEITDY	GVKLD	DIVDK	SGAW	292	
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....	LKQN....	EQH	IGNRAK	AKVVKNKVAPPF	REAEFD	IMFGEGISKE	GEITDY	GVKLD	DIVDK	SGAW	292	
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....	VKDG....	DEI	IGSETK	VVVKNKVAPPF	REVQFD	IMYGGEGISR	MNELLI	LA	ANGFI	IKKSGAW	306	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....	IKKG....	EEV	LGNETR	VKVI	KNKVAPPFR	QAEFD	DILYGGEGIS	WEGELID	IGVKN	DI	INKSGAW	290
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....	IKKG....	EEV	LGNETR	VKVI	KNKVAPPFR	QAEFD	DILYGGEGIS	WEGELID	IGVKN	DI	INKSGAW	290
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....	IKKG....	EEV	LGNETR	VKVI	KNKVAPPFR	QAEFD	DILYGGEGIS	WEGELID	IGVKN	DI	INKSGAW	290
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....	IKKG....	DEV	VGNETK	VVVKNKVAPPF	REAEFD	DILYGGAGV	SREGEI	IDL	GVEAK	VVEK	SGAW	298
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....	IKEG....	EEV	VGNETRI	KVVKNKIA	APPFKEANTQ	IMYGGGFN	REGELID	LG	VKHKM	VVEK	SGAW	289
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....	IKEG....	EEV	VGNETRI	KVVKNKIA	APPFKEANTQ	IMYGGGFN	REGELID	LG	VKHKM	VVEK	SGAW	289
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....	VKEG....	DEI	VGSETK	VVVKNKMAPPF	KEAIFQ	ILYGGKGT	NQLGELVD	LAVQQ	DIV	QKAGAW	289	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....	VKEG....	DEI	IGSETK	VVVKNKMAPPF	REAEIFQ	ILYGGKGV	NQLGELVD	LAVQQ	NIV	QKAGAW	289	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....	VKEG....	DEV	VGSETR	VVVKNKVAPPFR	QAEFD	ILYGGKGIY	RNGEIID	LG	VQQGL	VVEK	SGAW	289
consensus				*!!**!*	**	*	**	*****!!*!!*!!*!!*!!*	*	*****!!*!!*!!*!!*!!*	*****	**	*****	!!*!!*		

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NTDB id 600 KW2 RS01765 WP 011675413.1	FAYNDEKIGQGA	EKA	KNYL	KEHQ	DV	FD	EID	HKV	RAAH	GL	LDD	SEVA	ETE	EETT	ASK	TKAKAK	KKEEK	AVET	EIE	LELED	.	387																																										
NTDB id 269 KZH43 RS08665 WP 001085462.1	YSYKDEKIGQGS	ENAK	KYLA	AEHP	EIF	DF	EID	KQV	RSKF	GL	LIDG	EEV	SEQD	TEN	KKDE	...	PKKEEA	..	VNEEV	PLDL	GDG	381																																										
NTDB id 228 SPD RS09265 WP 001085462.1	YSYKDEKIGQGS	ENAK	KYLA	AEHP	EIF	DF	EID	KQV	RSKF	GL	LIDG	EEV	SEQD	TEN	KKDE	...	PKKEEA	..	VNEEV	PLDL	GDG	381																																										
NTDB id 194 SPR RS08825 WP 001085462.1	YSYKDEKIGQGS	ENAK	KYLA	AEHP	EIF	DF	EID	KQV	RSKF	GL	LIDG	EEV	SEQD	TEN	KKDE	...	PKKEEA	..	VNEEV	PLDL	GDG	381																																										
NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGS	ENAK	KYLA	AEHP	EIF	DF	EID	KQV	RSKF	GL	LIDG	EEV	SEQD	TEN	KKDE	...	PKKEEA	..	VNEEV	PLDL	GDG	381																																										
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YSYKDEKIGQGS	ENAK	KYL	ADN	PEV	FAE	IDH	QV	RV	QF	GL	LIDG	EEAAE	...	SKKDE	...	VAQ	VDS	..	VNEEV	TLDL	GDG	377																																									
NTDB id 499 SM12261 RS08315 WP 078228268.1	YSYKDEKIGQGS	ENAK	KYL	ADN	PEV	FAE	IDH	QV	RV	QF	GL	LIDG	EEIAE	...	SKKDE	...	AAQ	VDS	..	VNEEV	TLDL	GDG	377																																									
NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGS	ENAK	KRYL	ADHP	QLF	DF	EID	RKV	RV	KFG	LEE	EEEE	SAM	AV	ASE	.....	E	.....	TDDL	LALD	L	DNG	373																																									
NTDB id 408 SMU RS09530 WP 002262392.1	FSYNGEKIGQGS	ENAK	KFL	ADN	PEV	DD	IDH	KV	RV	QY	GL	IEED	NTE	EK	QSS	KEK	.....	ET	DEK	..	ADK	NLV	LEL	DDT	378																																							
NTDB id 115 BSU 16940 NP 389576.2	YSYEEEE	RL	GG	RENA	KQ	FL	KEN	KD	IM	LM	I	QEQ	IRE	HY	GL	DN	NG	VV	QQ	AE	ET	QE	EEL	EF	E	.....	EE	.....	348																																			
NTDB id 625 LCA RS02525 WP 011374196.1	YSYGSER	I	GG	RENA	KNYL	ADH	ED	VE	EV	RL	KV	RA	AY	GI	SD	V	PE	ED	L	P	T	T	E	DE	QI	.	NIL	P	D	D	S	T	.....	EE	.....	355																												
NTDB id 1313 DR RS12030 WP 010888966.1	YSYGDER	I	GG	KE	K	T	I	A	Y	T	A	E	R	P	E	M	E	Q	E	I	R	D	R	V	M	A	A	I	R	A	G	N	A	G	E	A	P	A	L	A	P	A	A	P	A	A	E	A	A	E	A	.....	363											
NTDB id 73701 FME97 RS00035 WP 141427370.1	FSYGDR	K	I	G	Q	R	D	A	V	K	E	L	L	K	N	D	A	A	L	A	A	E	I	E	E	K	V	R	E	A	M	K	N	Q	K	.....	337																											
NTDB id 1334 RAOC RS04870 WP 004918236.1	FSYQDT	K	I	G	Q	R	D	T	V	K	E	L	K	D	N	P	E	L	A	E	E	L	A	K	I	R	E	K	L	Q	A	K	.....	343																														
NTDB id 1245 Cj1673c YP 002345041.1	FSYKDK	K	L	G	Q	G	R	E	N	S	K	A	F	L	K	E	N	P	E	I	A	D	E	I	T	K	A	I	Q	N	S	M	G	T	E	G	M	I	S	.....	G	S	E	D	D	E	..	G	E	E	.....	343												
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LSYQDK	K	L	G	Q	G	R	E	N	A	K	A	L	L	K	E	D	K	A	L	A	D	E	I	T	L	K	I	K	E	S	I	G	S	N	E	E	I	M	.....	P	L	P	D	E	P	..	L	E	E	M	.....	347											
NTDB id 1211 C694 RS00795 WP 000963128.1	LSYQDK	K	L	G	Q	G	R	E	N	A	K	A	L	L	K	E	D	K	A	L	A	D	E	I	T	L	K	I	K	E	S	I	G	S	N	E	E	I	M	.....	P	L	P	D	E	P	..	L	E	E	M	.....	347											
NTDB id 1389 A4U84 RS07560 WP 021112712.1	FSYDGT	K	I	G	Q	G	K	N	N	A	V	K	W	L	K	E	N	P	E	I	A	D	K	L	E	Q	E	I	R	N	T	L	A	S	N	P	N	S	V	.....	L	K	A	T	A	S	D	S	N	D	E	S	..	V	E	E	F	S	E	E	E	L	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	YSYNGAK	I	G	Q	G	K	D	N	V	R	V	W	L	K	E	N	P	E	I	S	D	E	I	D	A	K	I	R	A	L	N	G	V	E	M	H	I	T	.....	E	G	T	Q	D	E	T	.....	G	E	R	P	E	E	.....	348									
NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAK	I	G	Q	G	K	D	N	V	R	V	W	L	K	E	N	P	E	I	S	D	E	I	D	A	K	I	R	A	L	N	G	V	E	M	H	I	T	.....	E	G	T	Q	D	E	T	.....	G	E	R	P	E	E	.....	348									
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAK	I	G	Q	G	K	D	N	V	R	V	W	L	K	E	N	P	E	I	S	D	E	I	D	A	K	I	R	A	L	N	G	V	E	M	H	I	T	.....	E	G	T	Q	D	E	T	.....	G	E	R	P	E	E	.....	348									
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGER	I	G	Q	G	R	D	N	C	R	E	F	L	R	E	N	A	E	L	A	R	E	I	E	N	K	V	R	E	H	L	G	V	T	P	M	G	A	.....	V	.	T	L	A	E	E	V	E	E	D	.....	352												
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGD	K	I	G	Q	G	K	A	N	A	C	K	Y	L	K	E	N	P	E	I	A	K	T	L	D	K	K	L	R	E	M	L	L	N	P	E	N	M	Q	.....	L	I	A	E	T	S	S	A	A	D	D	V	E	..	F	G	A	V	P	E	E	F	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGD	K	I	G	Q	G	K	A	N	A	C	K	Y	L	K	E	N	P	E	I	A	K	T	L	D	K	K	L	R	E	M	L	L	N	P	E	N	M	Q	.....	L	I	A	E	T	S	S	A	A	D	D	V	E	..	F	G	A	V	P	E	E	F	.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGN	K	I	G	Q	G	K	N	N	V	I	R	Y	F	E	E	N	N	Q	I	A	E	E	I	E	R	N	I	R	E	Q	L	L	T	T	G	N	.....	A	V	Q	.	I	.	E	D	E	E	E	P	.....	L	L	L	E	S	.....	349						
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGN	K	I	G	Q	G	K	N	N	V	I	R	Y	L	E	E	N	P	Q	I	S	T	E	I	E	A	V	I	R	E	Q	L	L	T	K	A	S	D	.....	T	A	A	.	H	D	E	T	E	E	E	P	.....	L	L	E	S	.....	349						
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGS	K	I	G	Q	G	K	A	N	A	K	Y	L	E	E	N	P	E	I	G	Q	E	I	E	Q	I	R	A	K	L	L	V	T	S	A	N	T	.....	K	A	T	P	V	A	E	D	L	A	D	.....	I	.....	347											

consensus

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consensus

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