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NTDB id 600 KW2 RS01765 WP 011675413.1	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	M	G	D	S	H	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	I	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	234	
NTDB id 269 KZH43 RS08665 WP 001085462.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 228 SPD RS09265 WP 001085462.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 194 SPR RS08825 WP 001085462.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 159 SP RS09750 WP 001085462.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 499 SM12261 RS08315 WP 078228268.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 453 Spy49 1753c ACI62003.1	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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 408 SMU RS09530 WP 002262392.1	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	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	233		
NTDB id 360581 FAZ25 RS05500 WP 048801498.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	A	G	T	L	N	R	T	G	T	I	A	I	F	I	N	Q	I	R	E	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	233	
NTDB id 625 LCA RS02525 WP 011374196.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	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	220	
NTDB id 115 BSU 16940 NP 389576.2	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	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	218	
NTDB id 1313 DR RS12030 WP 010888966.1	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	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	P	G	G	R	A	L	K	F	Y	A	S	232
NTDB id 1245 Cj1673c YP 002345041.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	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	P	G	G	R	A	L	K	F	Y	A	S	220
NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	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	S	222	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	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	S	222	
NTDB id 1334 RAOC RS04870 WP 004918236.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	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	I	R	D	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	228	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	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	S	236
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	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	220		
NTDB id 1124 NGFG RS03960 WP 003688695.1	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	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	220		
NTDB id 1123 OK783 RS03845 WP 003688695.1	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	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	220		
NTDB id 1427 RS RS02760 WP 011000510.1	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	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	S	228
NTDB id 1165 A1552VC RS01565 WP 000344154.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	L	M	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	N	A	L	K	F	Y	A	S	219
NTDB id 1142 GTF74 RS11550 WP 000344154.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	L	M	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	N	A	L	K	F	Y	A	S	219
NTDB id 1022 ACIAD RS06390 WP 004925639.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	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	S	219
NTDB id 1074 ABD1 RS10195 WP 000344167.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	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	S	219
NTDB id 1205 PSJM300 05545 AFN77183.1	I	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	I	K	N	A	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	S	219
consensus	**	!	!																																																																													

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NTDB id 600	KW2	RS01765	WP 011675413.1	VRLDVRG	STKIEEGS	.GDNKTQ	IGK	ITK	IKVVKNKV	APPFK	VALVD	IMF	GEGIS	STGEL	INT	AVEEG	I	IKK	SGAW	FAY	ND	313																
NTDB id 269	KZH43	RS08665	WP 001085462.1	VRLDVRG	NNTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	EIMYG	GEGIS	KTGEL	LKIAS	SDL	D	I	IKK	AGAW	YSYK	312																
NTDB id 228	SPD	RS09265	WP 001085462.1	VRLDVRG	NNTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	EIMYG	GEGIS	KTGEL	LKIAS	SDL	D	I	IKK	AGAW	YSYK	312																
NTDB id 194	SPR	RS08825	WP 001085462.1	VRLDVRG	NNTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	EIMYG	GEGIS	KTGEL	LKIAS	SDL	D	I	IKK	AGAW	YSYK	312																
NTDB id 159	SP	RS09750	WP 001085462.1	VRLDVRG	NNTQIKGTG	.DQKETN	VGK	ETK	IKVVKNKV	APPFK	EAVVE	EIMYG	GEGIS	KTGEL	LKIAS	SDL	D	I	IKK	AGAW	YSYK	312																
NTDB id 527	SMSK321	RS11065	WP 001085454.1	VRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVVKNKV	APPFK	EAFVE	EIMYG	GEGIS	KTGEL	LKIAS	SDL	D	I	IKK	AGAW	YSYK	312																
NTDB id 499	SM12261	RS08315	WP 078228268.1	VRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVVKNKV	APPFK	EAFVE	EIMYG	GEGIS	KTGEL	LKIAS	SDL	D	I	IKK	AGAW	YSYK	312																
NTDB id 453	Spy49	1753c	ACI62003.1	VRLDVRG	TQIKGTG	.DQKDS	IGK	ETK	IKVVKNKV	APPFK	VAEVE	EIMYG	GEGIS	RTGEL	VKIAS	SDL	D	I	IKK	AGAW	FSYNG	312																
NTDB id 408	SMU	RS09530	WP 002262392.1	VRLDVRG	NNTQIKGTG	.EQKDSN	IGK	ETK	IKVVKNKV	APPFK	EAFVE	EIMYG	GEGIS	RTGEL	VKIAS	SDL	D	I	IKK	AGAW	FSYNG	312																
NTDB id 360581	FAZ25	RS05500	WP 048801498.1	IRLEVR	RSTQIKDGT	.D...VT	GNL	TKV	KVVKNKV	APPFK	VAEID	IMYG	GKVS	QTGE	ILD	LGAE	EQE	I	IRK	AGAW	FYYDD	308																
NTDB id 625	LCA	RS02525	WP 011374196.1	VRLEVR	RAETIKNGT	.D...M	IGN	RA	IKVVKNKV	APPFK	VAEVD	IMYG	GGIS	RTGEL	VDMA	VEKD	I	INK	SGSW	YSYGS	295																	
NTDB id 115	BSU	16940	NP 389576.2	VRLEVR	RAEQLKQGN	.D...V	MGN	TK	IKVVKNKV	APPFR	TAEVD	IMYG	GEGIS	KEGET	IDL	GTDEL	D	I	V	QKSG	SWSYEE	293																
NTDB id 1313	DR	RS12030	WP 010888966.1	VRLDVR	KIGQ...PT	KVGND	AV	NTV	KIKTV	KNKVA	APPFK	EVEL	ALVY	GKGF	DL	VL	GLA	ADM	I	IKK	AGS	FSYD	308															
NTDB id 1245	Cj1673c	YP 002345041.1	VRLDVR	KVAT...L	KQNE	EP	IGN	R	VKVV	KNKV	APPFR	QAEF	DVM	FGE	LS	REG	EL	I	D	YGV	KLD	D	I	V	DK	SGAW	FSYK	295										
NTDB id 1211	C694	RS00795	WP 000963128.1	VRIDIR	RIAS...L	KQNE	QH	IGN	R	AKVV	KNKV	APPFR	EAEF	DIM	FGE	GIS	KEGET	I	D	YGV	KLD	D	I	V	DK	SGAW	LSYQD	297										
NTDB id 1214	NCTC11637	00359	SQJ03206.1	VRIDIR	RIAA...L	KQNE	QH	IGN	R	AKVV	KNKV	APPFR	EAEF	DIM	FGE	GIS	KEGET	I	D	YGV	KLD	D	I	V	DK	SGAW	LSYQD	297										
NTDB id 1334	RAOC	RS04870	WP 004918236.1	VRIDIR	RSLSDTG	KIKDKS	GEV	IGN	R	TKVV	KNKV	APPFK	SAEF	DIM	YG	GV	SKV	GE	I	L	D	V	A	T	D	L	D	I	I	QK	SG	SW	FSYQD	308				
NTDB id 1389	A4U84	RS07560	WP 021112712.1	VRLDIR	RCGV...V	KDG	DEI	IG	SE	TKVV	KNKV	APPFR	REV	QFD	IMY	GEGIS	RMN	ELL	I	L	A	E	A	N	G	F	I	K	K	SGAW	FSYD	311						
NTDB id 1130	NGFG	RS03960	WP 003688695.1	VRLDIR	RTGS...I	KKG	EEV	LG	NET	RVKVI	KNKV	APPFR	QAEF	DILY	GEGIS	WEGEL	I	D	I	G	V	K	N	D	I	I	N	K	SGAW	YSYNG	295							
NTDB id 1124	NGFG	RS03960	WP 003688695.1	VRLDIR	RTGS...I	KKG	EEV	LG	NET	RVKVI	KNKV	APPFR	QAEF	DILY	GEGIS	WEGEL	I	D	I	G	V	K	N	D	I	I	N	K	SGAW	YSYNG	295							
NTDB id 1123	OK783	RS03845	WP 003688695.1	VRLDIR	RTGS...I	KKG	EEV	LG	NET	RVKVI	KNKV	APPFR	QAEF	DILY	GEGIS	WEGEL	I	D	I	G	V	K	N	D	I	I	N	K	SGAW	YSYNG	295							
NTDB id 1427	RS	RS02760	WP 011000510.1	VRLDIR	RRIGS...I	KKG	DEV	VG	NET	KVV	KNKV	APPFR	EAF	DILY	GAG	V	S	REGE	I	I	D	L	G	V	E	A	K	V	E	K	SGAW	YSYNG	303					
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	VRLDIR	RTGA...I	KEG	EEV	VG	NET	RIKVV	KNKI	A	APP	FK	EANT	QIMY	GG	GF	N	REG	E	I	D	L	G	V	K	H	K	M	V	E	K	SGAW	YSYNG	294		
NTDB id 1142	GTF74	RS11550	WP 000344154.1	VRLDIR	RTGA...I	KEG	EEV	VG	NET	RIKVV	KNKI	A	APP	FK	EANT	QIMY	GG	GF	N	REG	E	I	D	L	G	V	K	H	K	M	V	E	K	SGAW	YSYNG	294		
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	VRLDIR	RRIGQ...V	KEG	DEI	IG	SE	TKVV	KNKM	APP	FR	EAI	FQILY	GK	V	N	Q	L	G	E	L	V	D	L	A	V	Q	N	I	V	Q	K	AGAW	YSYQG	294	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	VRLDIR	RRIGQ...V	KEG	DEI	IG	SE	TKVV	KNKM	APP	FR	EAI	FQILY	GK	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	N	I	V	Q	K	AGAW	YSYQG	294
NTDB id 1205	PSJM300	05545	AFN77183.1	VRLDIR	RTGA...V	KEG	DEV	VG	SE	TRV	KVV	KNKV	APPFR	QAEF	QILY	GK	GI	Y	R	N	G	E	I	D	L	G	V	Q	Q	L	V	E	K	SGAW	YAYK	294		

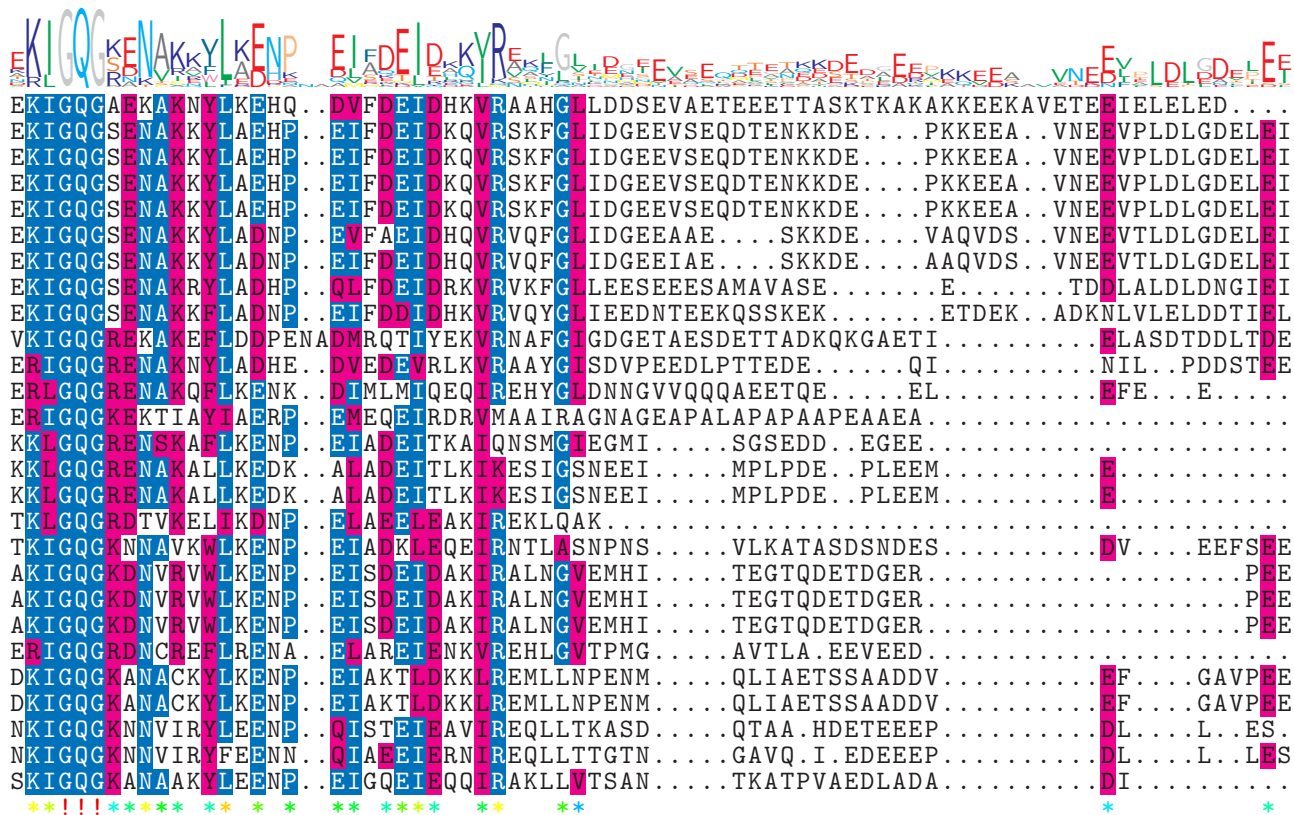
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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 360581 FAZ25 RS05500 WP 048801498.1
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
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 NTDB id 1389 A4U84 RS07560 WP 021112712.1
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 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

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 348
 363
 343
 347
 347
 343
 370
 348
 348
 348
 352
 353
 353
 349
 349
 347

logo

	FILEE	
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 360581 FAZ25 RS05500 WP 048801498.1	PIV.	381
NTDB id 625 LCA RS02525 WP 011374196.1	....	355
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	EL..	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	F...	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	F...	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	349
NTDB id 1205 PSJM300 05545 AFN77183.1	347

consensus

non conserved
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 ≥ 50% conserved