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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73		
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFG	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73		
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFG	DERKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73		
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	EK.TDTR	ISTVPSGSLALDI	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDE	ALGVGGYPRGR		60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKAT	ETAMSI	EKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLDL	ALGIGGVPKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQID	KVFGKGVRLGDK	.QVEKIDA	ISTGSLGLDL	ALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQID	KVFGKGVRLGDK	.QVEKIDS	ISTGSLGLDL	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSPPDDKKK	ALAAVLEKLDKTYGKGTVMKLG	GD	TVDHNI	IEVIPS	SGSLGLDL	ALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR		60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR		60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAIQIEKS	FGKGAIMKMDGSQ	QEEENLEVISTGSLGLDL	ALGVGGLPRGR		60	
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMSAEKQK	ALAAALAIQIEKQ	FGKGSIMKMGDA	.EVEPVQVVSTGSLGLDV	ALGVGGLPRGR	68	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKS	KALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKS	KALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKR	ALAAALGQIEKQ	FGKGVMRMGDH	.DRQATPSISTGSLGLDI	ALGIGGLPKGR	59	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEQKKQ	ALEAALAIQIEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDL	ALGIGGLPMGR	76	
NTDB id 112354 I927 RS05030 WP 005724816.1	.....MATKEKN	KALAAALGQIEKQ	FGKGSIMKLGDT	.QALDVEAVSTGSLSLDV	ALGIGGLPMGR	61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQ	KALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1MDENKQ	KALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59		
consensus	*** **	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!		

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGK	ITK	IKVV	KNKV	VAPP	PFKE	ALVD	IMF	GEGIS	STGEL	INTA	VEEG	IT	KKSG	AWFA	YNA	312																																						
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVVE	IMY	GEGIS	KTGEL	LKI	ASDL	DI	KKAG	AWYS	YK	311																																						
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVVE	IMY	GEGIS	KTGEL	LKI	ASDL	DI	KKAG	AWYS	YK	311																																						
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVVE	IMY	GEGIS	KTGEL	LKI	ASDL	DI	KKAG	AWYS	YK	311																																						
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AVVE	IMY	GEGIS	KTGEL	LKI	ASDL	DI	KKAG	AWYS	YK	311																																						
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AFVE	IMY	GEGIS	KTGEL	LKI	ASDL	DI	KKAG	AWYS	YK	311																																						
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGK	ETK	IKVV	KNKV	VAPP	PFKE	AFVE	IMY	GEGIS	KTGEL	LKI	ASDL	DI	KKAG	AWYS	YK	311																																						
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRG	TQIKGTG	.DQKDS	IGK	ETK	IKVV	KNKV	VAPP	PFKE	AEVE	IMY	GEGIS	RTEG	LVI	ASDL	DI	IKAG	AWF	SYN	311																																						
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGK	ETK	IKVV	KNKV	VAPP	PFKE	AFVE	IIY	GEGIS	RTEG	LVI	ASDL	GI	IKAG	AWYS	YN	311																																						
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVR	RAEQLKQGNDV	MGN	TKK	IKVV	KNKV	VAPP	FR	TAEV	DI	MYG	EGIS	KEGE	IT	DL	GT	EL	DIV	QKSG	SWYS	YE	292																																			
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVR	RAETIKNGTDM	IGN	RAR	IKVV	KNKV	VAPP	PFKE	AEV	DI	MYG	QGIS	RTEG	EL	VD	MA	VEK	DI	INK	SGS	WYS	YG	294																																		
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVR	KIG....	QPTK	VGN	DAV	ANT	VKI	IKT	VKN	KVA	AP	PFKE	VEL	ALV	YG	KG	FD	QL	SD	LV	GL	AAD	MI	IKK	AGS	FYS	YG	307																														
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVR	KVA....	TL.KQN	EET	IGN	R	V	K	V	V	KN	KV	V	AP	PF	Q	AE	F	D	V	M	F	G	E	G	L	S	R	E	G	E	L	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	F	S	Y	K	294							
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIR	RIA....	AL.KQN	EQH	IGN	R	A	K	A	V	V	KN	KV	V	AP	PF	R	E	A	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	Y	K	296			
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIR	RIA....	SL.KQN	EQH	IGN	R	A	K	A	V	V	KN	KV	V	AP	PF	R	E	A	E	F	D	I	M	F	G	E	G	I	S	K	E	G	E	I	D	Y	G	V	K	L	D	I	V	D	K	S	G	A	W	L	S	Y	K	296			
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIR	RSLS	DTGK	IK	DK	S	GEV	IGN	R	T	K	V	V	KN	KV	V	AP	PF	K	S	A	E	F	D	I	M	Y	G	E	G	V	S	K	V	G	E	L	D	V	A	T	D	L	D	I	I	Q	K	S	G	S	W	F	S	Y	K	307	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIR	RTG....	SI.KKG	EEV	LGN	ET	R	V	K	V	I	K	N	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	S	Y	N	294		
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIR	RTG....	SI.KKG	EEV	LGN	ET	R	V	K	V	I	K	N	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	S	Y	N	294		
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIR	RTG....	SI.KKG	EEV	LGN	ET	R	V	K	V	I	K	N	V	A	P	P	F	R	Q	A	E	F	D	I	L	Y	G	E	G	I	S	W	E	G	E	L	D	I	G	V	K	N	D	I	I	N	K	S	G	A	W	S	Y	N	294		
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIR	RIG....	SI.KKG	DEV	VGN	ET	K	V	V	KN	KV	V	A	P	P	F	R	E	A	I	F	D	I	L	Y	G	A	G	V	S	R	E	G	E	I	D	L	G	V	E	A	K	V	V	E	K	S	G	A	W	S	Y	N	302				
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIR	RIG....	QV.KEG	DEI	IG	S	E	T	K	V	V	KN	K	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	V	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	N	I	V	Q	K	A	G	A	W	S	Y	Q	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIR	RIG....	QV.KEG	DEI	IG	S	E	T	K	V	V	KN	K	M	A	P	P	F	R	E	A	I	F	Q	I	L	Y	G	K	G	T	N	Q	L	G	E	L	V	D	L	A	V	Q	Q	D	I	V	Q	K	A	G	A	W	S	Y	Q	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIR	RTG....	AV.KEG	DEV	VG	S	E	T	R	V	V	KN	KV	V	A	P	P	F	R	Q	A	E	F	Q	I	L	Y	G	K	G	I	Y	R	N	G	E	I	D	L	G	V	Q	Q	L	V	E	K	S	G	A	W	Y	A	Y	K	293		
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIR	RCG....	VV.KDG	DEI	IG	S	E	T	K	V	V	KN	KV	V	A	P	P	F	R	E	V	Q	F	D	I	M	Y	G	E	G	I	S	R	M	N	E	L	L	I	L	A	E	A	N	G	F	I	K	K	S	G	A	W	F	S	Y	D	310
NTDB id 112354	I927	RS05030	WP 005724816.1	SVRLDIR	RTG....	AI.KEG	EEV	IGN	ET	R	V	K	V	KN	KV	V	A	P	P	F	R	Q	V	D	F	Q	I	L	Y	G	Q	G	I	S	K	T	G	E	L	I	E	L	G	V	K	H	L	V	D	K	A	G	A	W	A	Y	N	295			
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIR	RTG....	AI.KEG	EEV	VGN	ET	R	I	K	V	KN	K	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	N	293			
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIR	RTG....	AI.KEG	EEV	VGN	ET	R	I	K	V	KN	K	I	A	A	P	F	K	E	A	N	T	Q	I	M	Y	G	Q	G	F	N	R	E	G	E	L	D	L	G	V	K	H	K	M	V	E	K	S	G	A	W	S	Y	N	293			

consensus

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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 527 SMSK321 RS11065 WP 001085454.1	IEE	384
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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 1214 NCTC11637 00359 SQJ03206.1	...	347
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NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
NTDB id 112354 I927 RS05030 WP 005724816.1	...	354
NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354

consensus

 non conserved
 similar
 ≥ 50% conserved