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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGK	ITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAYN	312		
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DIKKAGAWYSYK	311		
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDL	GIQQKAGAWYSYK	311		
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKEAVVEIMYGEGISRTGELVKIASDL	DIQQKAGAWFSYN	311		
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEITDLGTELDIVQKSGSWYSYE	292		
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVDIMYGEGISRTGELVDM	AVEKDIINKSGSWYSYG	294		
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIG....	QPTKVGNDAVANTVVKIKTVKNKVAAPFKEVELALVY	GKGFQDLSDLVGLAADMDI	IKKAGSFYSYG	307	
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVRKVA....	TL.KQNEEPIGNRVKIKVVKNKVAPPFRQAEFDV	MFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294			
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIA....	AL.KQNEQHIGNRAKIKVVKNKVAPPFRQAEFDIM	FGEGISKEGEITDYGVKLDIVDKSGAWLSYQ	296		
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIA....	SL.KQNEQHIGNRAKIKVVKNKVAPPFRQAEFDIM	FGEGISKEGEITDYGVKLDIVDKSGAWLSYQ	296		
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLS	DTGKIKDKSGEIVGNRTKIKVVKNKVAPPFKSAEFDIM	YGEGVSKVGEILDVATDLDI	IQKSGSWFSYQ	307	
NTDB id 398676	GH983	RS09955	WP 054149777.1	SVRLDIRRIG....	AV.KDRFEVGNQTRVKKVKNKMAPPFKQVEFDIM	YGEGVSKTGEVLDLGVKAGIVEKSGAWFSYN	305		
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCG....	VV.KDGEIIGSETKIKVVKNKVAPPFRQAEFDIM	YGEGISRMNELLILAEANGFI	IKKSGAWFSYD	310	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTG....	SI.KKGEVVLGNETR	VKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKN	DIINKSGAWYSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTG....	SI.KKGEVVLGNETR	VKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKN	DIINKSGAWYSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTG....	SI.KKGEVVLGNETR	VKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKN	DIINKSGAWYSYN	294	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIG....	SI.KKGEDEVGNETKIKVVKNKVAPPFRQAEFDILY	GAGVSREGEITDLGVEAKVVEKSGAWYSYN	302		
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTG....	AI.KEGEVVLGNETR	IKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHKM	VEKSGAWYSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTG....	AI.KEGEVVLGNETR	IKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGVKHKM	VEKSGAWYSYN	293	
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIG....	QV.KEGDEIIGSETKIKVVKNKMAPPFREAI	FQILYGKGVNQLGELVDLAVQQDIVQKAGAWYSYQ	293		
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIG....	QV.KEGDEIIGSETKIKVVKNKMAPPFREAI	FQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293		
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTG....	AV.KEGDEVVGS	ETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEITDLGV	QQGLVEKSGAWAYK	293	
consensus				*!!**!*	*	** *****!*****!*****!*	*	*****!***** ***** **	*** ! !*****!



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	E	I	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1	.	.	.	.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	E	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	E	D	.	.	383
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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
NTDB id 1211 C694 RS00795 WP 000963128.1	.	.	.	.	347
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NTDB id 398676 GH983 RS09955 WP 054149777.1	.	.	.	.	362
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 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  
 similar  
 ≥ 50% conserved