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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 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFV	EIMYGEGISKTGELKIASDL	DIKKAGAWYSYK	311
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKVAEV	EIMYGEGISRTGELVKIASDL	DIQKAGAWFSYN	311
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFV	EIIYEGESISRTGELVKIASDL	GIQKAGAWYSYN	311
NTDB id 1045098	ACEPST	RS00735	WP 395390457.1	TVRLEVRRAEQIKDGT....DV	IGNRTRIKVVKNKVAPPFKRAEV	DIMYKGGISQTGELDMAVEKD	DIVDKSGSWYSY	293
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT....DM	IGNRARIKVVKNKVAPPFKVAEV	DIMYGGISRTGELVDMAVEKD	IINKSGSWYSY	294
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN....DV	MGNKTKIKVVKNKVAPPFR	AEVDIMYEGISKEGEIIDL	GTGLDIVQKSGSWYSY	292
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKE	VELALVYGGKGFQDLSDL	VGLAADMIDIKKAGSFYSY	307
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVAT....L.KQNE	EPIGNRVKIKVVKNKVAPPFR	QAEFDVMFGEGLSREGEL	IDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIAS....L.KQNE	QHIGNRAKIKVVKNKVAPPFR	EAFFDIMFGEGISKEGEIIDY	GVKLDIVDKSGAWLSYQ	296
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAA....L.KQNE	QHIGNRAKIKVVKNKVAPPFR	EAFFDIMFGEGISKEGEIIDY	GVKLDIVDKSGAWLSYQ	296
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRSLSDTGKIKDKS	GEVIGNRTKIKVVKNKVAPPFKS	AEFDIMYGEVSKVGEIILD	VATDLDIQKSGSWFSYQ	307
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGV....V.KDG	DEIIGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELL	LILAEANGFIKKSGAWFSYD	310
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKNKVAPPFR	QAEFDILYGEGISWEGEL	IDIGVKNDIINKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGS....I.KKG	DEVVGNETKIKVVKNKVAPPFR	EAFDILYGAGVSRGEIIDL	GVKHKMVEKSGAWYSYN	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPF	KEANTQIMYGGFNREGEL	IDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPF	KEANTQIMYGGFNREGEL	IDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPPFR	EAFIFQIILYGGKVNQLGEL	VDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGQ....V.KEG	DEIIGSETKIKVVKNKMAPPFR	EAFIFQIILYGGKVNQLGEL	VDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGA....V.KEG	DEVVGSETRVKVVKNKVAPPFR	QAEFQIILYGGKIYENGEI	IDLGVQQGLVEKSGAWYAYK	293
consensus				*! ! ! * * ! *	* * * * * ! * ! ! ! ! * ! * *	* * * * * ! * ! * * * * * * *	* * * * * ! * ! * * * !	

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NTDB id	Accession	Sequence	Position
600	KW2 RS01765 WP 011675413.1	D.....	387
269	KZH43 RS08665 WP 001085462.1	DELEIEIEE	388
228	SPD RS09265 WP 001085462.1	DELEIEIEE	388
194	SPR RS08825 WP 001085462.1	DELEIEIEE	388
159	SP RS09750 WP 001085462.1	DELEIEIEE	388
527	SMSK321 RS11065 WP 001085454.1	DELEIEIEE	384
499	SM12261 RS08315 WP 078228268.1	DELEIEIEE	384
453	Spy49 1753c ACI62003.1	NGIEIED..	378
408	SMU RS09530 WP 002262392.1	DTIELED..	383
1045098	ACEPST RS00735 WP 395390457.1	KNKPGK...	378
625	LCA RS02525 WP 011374196.1	DSTEE....	355
115	BSU 16940 NP 389576.2	.....	348
1313	DR RS12030 WP 010888966.1	.....	363
1245	Cj1673c YP 002345041.1	.....	343
1211	C694 RS00795 WP 000963128.1	.....	347
1214	NCTC11637 00359 SQJ03206.1	.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	EEL.....	372
1130	NGFG RS03960 WP 003688695.1	E.....	348
1124	NGFG RS03960 WP 003688695.1	E.....	348
1123	OK783 RS03845 WP 003688695.1	E.....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	EF.....	354
1142	GTF74 RS11550 WP 000344154.1	EF.....	354
1022	ACIAD RS06390 WP 004925639.1	.....	349
1074	ABD1 RS10195 WP 000344167.1	S.....	349
1205	PSJM300 05545 AFN77183.1	.....	347

consensus

non conserved
 similar
 ≥ 50% conserved