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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLGE	A	ANQKVS	VSSGSLALD	I	ALGAGGY	PKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR		73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR		73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR		73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR		73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR		73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR		73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFG	DERRKALDDALKN	IEKD	FGKGAVMRLGER	.AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR		73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFG	DERKKALDDALKN	IEKD	FGKGAVMRLGER	.AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR		73
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTR	ISTVPSGSLALD	TALGIGGY	PRGR					58
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQV	VSTVSSGSLAL	DEALGVGGY	PRGR					60
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKA	TETAM	SQIEKA	AFGKGSIMKLGAE	.SKLDVQVV	STGSLSLD	L	ALGVGGI	PRGR		72
NTDB id 255278 CTM44 RS06455 WP 028905427.1	MTKE..EAQNPA	EGKLLKALQAAMSK	IEKD	FGKGSIMRMGEQIE	.NVEVIP	SGSIGLD	V	ALGVGGY	PRGR		67
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSPN	DDKKKALAAVLEK	LDKT	YGKGTVMKLG	DGTVDHNI	IEVIP	SGSLGLD	L	ALGVGGY	PKGR	68
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQ	IDSIGTGSVGLD	LALGIGGV	PKGR					59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAI	SLAIKQIDKV	FGKGALVRLGDK	.QVEK	IDSISTGSLGLD	LALGIGGV	PKGR				61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAI	SLAIKQIDKV	FGKGALVRLGDK	.QVEK	IDAISTGSLGLD	LALGIGGV	PKGR				61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEP	EQKKQALEAALAQ	IEKQFGKGSIMKLGQT	.EQLD	IESVSTGSLGLD	LALGIGGL	PMGR				76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKS	KALAAALAQ	IEKS	FGKGAIMKMDGSQ	QEENLEV	ISTGSLGLD	L	ALGVGGL	PRGR		60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKS	KALAAALAQ	IEKS	FGKGAIMKMDGSQ	QEENLEV	ISTGSLGLD	L	ALGVGGL	PRGR		60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKS	KALAAALAQ	IEKS	FGKGAIMKMDGSQ	QEENLEV	ISTGSLGLD	L	ALGVGGL	PRGR		60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQKALAAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	V	ALGVGGL	PRGR			68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQ	KALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR			59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQ	KALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR			59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNK	SKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR			59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENK	SKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR			59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKK	RALAAALGQ	IEKQFGKGAVMRMGDH	.DRQA	IPSISTGSLGLD	I	ALGIGGL	PKGR			59
consensus	***	**	*	***	*****	*	*****	***	***	***	

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	IKKSGAWFAYN	312					
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGE	GISKTGELLKIASDL	DIKKAGAWYSYK	311			
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGE	GISKTGELLKIASDL	DIKKAGAWYSYK	311			
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGE	GISKTGELLKIASDL	DIKKAGAWYSYK	311			
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGE	GISKTGELLKIASDL	DIKKAGAWYSYK	311			
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGE	GISKTGELLKIASDL	DIKKAGAWYSYK	311			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGE	GISKTGELLKIASDL	DIKKAGAWYSYK	311			
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGE	GISRTGELVKIASDL	DIQKAGAWFSYN	311			
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEI	IYGE	GISRTGELVKIASDL	GIIQKAGAWYSYN	311		
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGE	GISKEGEIIDLGTEL	DIVQKSGSWYSYE	292		
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVD	IMYGGISRTGELVDM	AVEKDI	INKSGSWYSYG	294		
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQP....TKVGND	AVANTVKIKTVKNKVAAPFKEVEL	ALVYGKGF	QDLS	DLVGLA	ADMDI	IKKAGSFYSYG	307
NTDB id 255278 CTM44 RS06455 WP 028905427.1	SVRLDIRRVTSI.....	KDGDNVIGNQVRVKVVKNKVAPPFR	KVEFDILFGEGISKVGEI	LDLGVEYN	IIQKSGSWFSYQ	301		
NTDB id 1334 RAO RS04870 WP 004918236.1	SVRLDIRRSLSDTGKIKDKSGEV	IGNRTKVKVVKNKVAPPFKSAEFD	IMYGE	GVSKVGEI	LDVATD	LDIIQKSGSWFSYQ	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVATL.....	KQNEEPIGNRVKVVKNKVAPPFR	QAEFDV	MFGEGLS	REGELIDYGV	KLDIVDKSGAWFSYK	294	
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRLDIRRIASL.....	KQNEQHIGNRAKAKVVKNKVAPPFRE	AEFDIMFGEGISKEGEI	IDYGV	KLDIVDKSGAWLSYQ	296		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRLDIRRIASL.....	KQNEQHIGNRAKAKVVKNKVAPPFRE	AEFDIMFGEGISKEGEI	IDYGV	KLDIVDKSGAWLSYQ	296		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGVV.....	KDGEIIGSETKVVVVKNKVAPPFR	EVQFDIMYGE	GISRMNELLILA	ANGFI	IKKSGAWFSYD	310	
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGSI.....	KKGEVLGNETR	RVKVIKNKVAPPFRQAEFD	DILYGE	GISWEGELIDIGV	KNDIINKSGAWYSYN	294	
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGSI.....	KKGEVLGNETR	RVKVIKNKVAPPFRQAEFD	DILYGE	GISWEGELIDIGV	KNDIINKSGAWYSYN	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGSI.....	KKGEVLGNETR	RVKVIKNKVAPPFRQAEFD	DILYGE	GISWEGELIDIGV	KNDIINKSGAWYSYN	294	
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGSI.....	KKGDEVVGNETKVVVVKNKVAPPFR	EAI	FDILYGA	GVSR	EGEIIDLGVEAKVVEKSGAWYSYN	302	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGAI.....	KEGEVVGNETRIKVVKNKIAAPFKE	ANTQIMYGGF	NREGELIDLG	VKHKMVEKSGAWYSYN	293		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGAI.....	KEGEVVGNETRIKVVKNKIAAPFKE	ANTQIMYGGF	NREGELIDLG	VKHKMVEKSGAWYSYN	293		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQV.....	KEGDEIVGSETKVVVVKNKMAPPFR	EAI	FIQILY	GKGVNQLGELVDLAV	QQNIVQKAGAWYSYQ	293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQV.....	KEGDEIVGSETKVVVVKNKMAPPFR	EAI	FIQILY	GKGVNQLGELVDLAV	QQNIVQKAGAWYSYQ	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGAV.....	KEGDEVVGS	ETRVKVVKNKVAPPFRQAEFQ	ILYGKGIYRN	GEIIDLG	VQQGLVEKSGAWAYK	293	
consensus	*!!**!* *	*	*	**	*****!*****!!*!!*!!* *	*****!!*!!*!!* ***** *	***** ! !*****!	

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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 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 255278 CTM44 RS06455 WP 028905427.1
NTDB id 1334 RAO RS04870 WP 004918236.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
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
consensus



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		IEE	
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 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
NTDB id 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
NTDB id 1313 DR RS12030 WP 010888966.1	...	363	
NTDB id 255278 CTM44 RS06455 WP 028905427.1	...	340	
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343	
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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			

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