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NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTTEEITKKFGEREKALDDALKNIEKDFGKGVAVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGEREKALDDALKNIEKDFGKGVAVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 261814 CYD95 RS06505 WP 002832084.1	.....MADERKEALNKALKKIEKNFGKGSIMRMGDA.VDTQISTIPSGSLALDDALGVGGYPKGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDLALGVGGIPKGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVSTGSLGLDVALGVGGLPKGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAALGQIEKQFGKGVAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
consensus	*** ** * **! *!***** * **!!!*!!*!!*!!*!!*!!*!!*!!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGK	ITKI	IKVVKNKVAPPFKVALVDIMF	GEGISSTGELINIAVEEGI	TKKSGAWFAYN	312				
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKEAVVEIMY	GEGISKTGELLKIASDLDI	TKKAGAWYSYK	311				
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKEAVVEIMY	GEGISKTGELLKIASDLDI	TKKAGAWYSYK	311				
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKEAVVEIMY	GEGISKTGELLKIASDLDI	TKKAGAWYSYK	311				
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKVAPPFKEAVVEIMY	GEGISKTGELLKIASDLDI	TKKAGAWYSYK	311				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKVAPPFKEAFVEIMY	GEGISKTGELLKIASDLDI	TKKAGAWYSYK	311				
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKVAPPFKEAFVEIMY	GEGISKTGELLKIASDLDI	TKKAGAWYSYK	311				
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETK	IKVVKNKVAPPFKEAFVEIITY	GEGISRTGELVKIASDLGI	TKKAGAWYSYN	311				
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETK	IKVVKNKVAPPFKVAEVEIMY	GEGISRTGELVKIASDLDI	TKKAGAWFSYN	311				
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.D...V	MGNKTK	IKVVKNKVAPPFRTAEVDIMY	GEGISKEGETIDLGT	ELDIVQKSGSWYSYE	292				
NTDB id 261814 CYD95 RS06505 WP 002832084.1	TIRLEVRRAEAIKQDGS.D...V	IGNRVK	IKVVKNKVAPPFKRAEVDIMY	GEGISQTGEMIDMAVEKD	IVGKSGSWYSYG	293				
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.D...M	IGNRARI	IKVVKNKVAPPFKVAEVDIMY	GEGISRTGELVDMAVEKDI	TKKSGSWYSYG	294				
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ...PTKVGND	AVANTVKIK	TVKNKVAAPFKEVELALVY	GKGFQDQLSDLVGLAADM	DIKKAGSFYSYG	307				
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT...L.KQNEEP	IGNRVK	IKVVKNKVAPPFRQAEFDV	MFGEGLSREGELIDYGV	KLDIVDKSGAWFSYK	294				
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNEQH	IGNRAKA	IKVVKNKVAPPFRQAEFDI	MFGEGLSKEGETIDYGV	KLDIVDKSGAWLSYQ	296				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNEQH	IGNRAKA	IKVVKNKVAPPFRQAEFDI	MFGEGLSKEGETIDYGV	KLDIVDKSGAWLSYQ	296				
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKV	IKVVKNKVAPPFKSAEFDI	MYGEGVSKVGEILDVAT	DLDIQKSGSWFSYQ	307				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KGDDEI	IGSETKV	IKVVKNKVAPPFRQAEFDI	MYGEGISRMNELLILA	EANGFIKKSGAWFSYD	310				
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEV	LGNETR	IKVVKNKVAPPFRQAEFDI	LYGEGISWEGELIDYGV	KNDIINKSGAWYSYN	294				
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEV	LGNETR	IKVVKNKVAPPFRQAEFDI	LYGEGISWEGELIDYGV	KNDIINKSGAWYSYN	294				
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKGEV	LGNETR	IKVVKNKVAPPFRQAEFDI	LYGEGISWEGELIDYGV	KNDIINKSGAWYSYN	294				
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKGEV	VGNETR	IKVVKNKVAPPFRQAEFDI	LYGAGVSREGEIDL	GVKNDIINKSGAWYSYN	302				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEGEEV	VGNETR	IKVVKNKIAAPFKEANTQI	MYGQGFNREGELIDL	GVKHKMVEKSGAWYSYN	293				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEGEEV	VGNETR	IKVVKNKIAAPFKEANTQI	MYGQGFNREGELIDL	GVKHKMVEKSGAWYSYN	293				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEGDEI	IGSETKV	IKVVKNKMAPPFRQAEFI	QILYGKGVNQLGELVDL	AVQQNIVQKAGAWYSYQ	293				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEGDEI	IGSETKV	IKVVKNKMAPPFRQAEFI	QILYGKGTNQLGELVDL	AVQQDIVQKAGAWYSYQ	293				
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEGDEV	VGSETR	IKVVKNKVAPPFRQAEFQ	ILYGKGIYRNGEIDL	GVQQGLVEKSGAWAYK	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
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 261814 CYD95 RS06505 WP 002832084.1	...	351
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 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	...	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