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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	I	ALGAGGYPKGR	74			
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73				
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73				
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73				
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73				
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGA	EREKALNDALKLI	IEKDFGKGSIMRLGER	.AEQKVQVMSSGSLALDI	I	ALGSGGYPKGR	73				
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFG	DERKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYPKGR	73				
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFG	DERKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYPKGR	73				
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALK	QIEKQFGKGSIMKLG	EK.TDTR	I	ISTVPSGSLALDI	I	ALGIGGYPRGR	58			
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALK	KIEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDE	I	ALGVGGYPRGR	60					
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTD	AKERSKATETAM	SQIEKAFGKGSIMKLGAE	.SKLDVQV	VSTGSLSLDI	I	ALGVGGIPRGR	72			
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQ	I	IDSIGTGSVGLDL	I	ALGIGGVPKGR	59			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGA	L	VRLGDK.QVEK	I	DAISTGSLGLDL	I	ALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGA	L	VRLGDK.QVEK	I	DAISTGSLGLDL	I	ALGIGGVPKGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPN	DDKKKALAAVLEK	LDKTYGKGTVMKLG	D	GTVDHNI	IEV	IPSGSLGLDL	I	ALGVGGYPKGR	68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV.VKQVEP	EQQKQALEAALA	QIEKQFGKGSIMKLGQT	.EQLD	IESVSTGSLGLDL	I	ALGIGGLPMGR	76			
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALA	QIEKSF	FGKGA	IMKMDGSQ	Q	EE	N	LEVISTGSLGLDL	I	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALA	QIEKSF	FGKGA	IMKMDGSQ	Q	EE	N	LEVISTGSLGLDL	I	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALA	QIEKSF	FGKGA	IMKMDGSQ	Q	EE	N	LEVISTGSLGLDL	I	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMS	A	EKQKALAAALA	QIEKQFGKGSIMKMD	A	.EVEPVQV	VSTGSLGLD	I	ALGVGGLPRGR	68	
NTDB id 343049 Kp711 RS07985 WP 002914769.1	.....MAIDENKQKALAAAL	GQIEKQFGKGSIMRLGED	.RTMDVET	I	STGSLSLDI	I	ALGAGGLPMGR	61			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAAL	GQIEKQFGKGSIMRLGDN	.RAMDVET	I	STGSLSLDI	I	ALGAGGLPMGR	59			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAAL	GQIEKQFGKGSIMRLGDN	.RAMDVET	I	STGSLSLDI	I	ALGAGGLPMGR	59			
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKQRALAAAL	GQIEKQFGKGAVMRMGDH	.DRQA	I	PSISTGSLGLDI	I	ALGIGGLPKGR	59			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEAV	VSTGSLTLDI	I	ALGIGGLPKGR	59				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEAV	VSTGSLTLDI	I	ALGIGGLPKGR	59				
consensus		*** **	***	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!			





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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGK	ITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	I	IKKSGAWFAYN	312			
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311			
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311			
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311			
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311			
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311			
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGISRTGELVKIASDL	GI	IKKAGAWFSYN	311			
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDS	IGKETKIKVVKNKVAPPFKEAFVEIIMYGEGISRTGELVKIASDL	GI	IKKAGAWYSYN	311			
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGEI	IDLGTELDIVQKSGSWYSYE	292			
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAEIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDM	AVEKDI	INKSGSWYSYG	294			
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTKVKNKVAAPFKEVELALVYGGKGFQDLS	DLVGLAADMDI	IKKAGSFYSYG	307			
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKIKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGV	KLDIVDKSGAWFSYK	294				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQH	IGNRAKIKVVKNKVAPPFRQAEFDIMFGEGISKEGEI	IDYGVKLDIVDKSGAWLSYQ	296				
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKIKVVKNKVAPPFRQAEFDIMFGEGISKEGEI	IDYGVKLDIVDKSGAWLSYQ	296				
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKIKVVKNKVAPPFKSAEFDIMYGGVSKVGEILDV	ATDLDI	IKKSGSWFSYQ	307			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KGDDEI	IGSETKIKVVKNKVAPPFRQAEFDIMYGEGISRMNELL	ILAEANGFI	IKKSGAWFSYD	310			
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKKNVAPPFRQAEFDILYGGISWEGELID	IGVKNDI	INKSGAWYSYN	294			
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKKNVAPPFRQAEFDILYGGISWEGELID	IGVKNDI	INKSGAWYSYN	294			
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKKNVAPPFRQAEFDILYGGISWEGELID	IGVKNDI	INKSGAWYSYN	294			
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEV	GNETRVKVIKVVKNKVAPPFRQAEFDILYGGISWEGELID	IGVKNDI	INKSGAWYSYN	302			
NTDB id 343049 Kp711 RS07985 WP 002914769.1	SVRLDIRRIGA....V.KEGDNV	VGSETRVKVVKNKIAAPFKQAEFQILYGGINIFYGELVD	LGVKEKLI	EKAGAWYSYN	295			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELID	LGVKHKMVE	EKSGAWYSYN	293			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEV	VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELID	LGVKHKMVE	EKSGAWYSYN	293			
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEV	VGSETRVKVVKNKVAPPFRQAEFQILYGGKGIYRNGE	IDLGVQQGL	VEKSGAWYAYK	293			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKIKVVKNKMAPPFREAI	FQILYGGKVNQLGELVDLAVQQN	IVQKAGAWYSYQ	293			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGSETKIKVVKNKMAPPFREAI	FQILYGGKVNQLGELVDLAVQQN	IVQKAGAWYSYQ	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 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 1245 Cj1673c YP 002345041.1	...	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	347
NTDB id 1211 C694 RS00795 WP 000963128.1	...	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 343049 Kp711 RS07985 WP 002914769.1	...	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

 non conserved  
 similar  
 ≥ 50% conserved