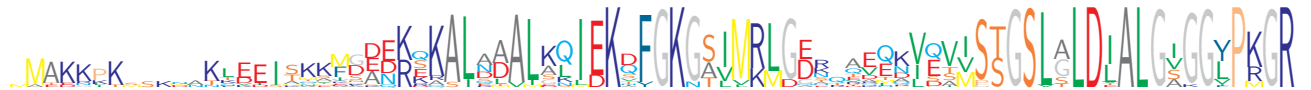


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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT....NFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVSIVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK....KLEEISKKFGEERKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKKFGEERKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK....KLEEISKKFGEERKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKKFGEERKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK....KLDEISKKFGEERKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
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NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK....KNEEITKKFGEERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK....KTEEITKKFGEERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSIKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDLALGVGGIPKGR	72
NTDB id 296178 DM810 RS02870 WP 110477766.1	.....MNEKFEQKKRSLRLVLDKMDKIYKGTVMRMGDTRI.ENLEIISGSLSLDIALGIKGFPKGR	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTE..TTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGR	68
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTVV..KQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.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.....KK..AASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.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 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGR	59
consensus	*** ** * **! *!***** * **!!*!!*!!*!!*!!*!!*!!*!!	

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKIKTKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	I	IKKSGAWFAYN	312							
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311						
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311						
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311						
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYGGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311						
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311						
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311						
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDL	DI	IKKAGAWFSYN	311						
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIIMYGGEGISRTGELVKIASDL	GI	IKKAGAWYSYN	311						
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....D	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGGEGISKEGEI	IDL	GTGELDIVQKSGSWYSYE	292					
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAEETIKNGT.....D	MIGNRARIKVVKNKVAPPFKVAEVD	IMYGGEGISRTGELVDM	AVEKDI	INKSGSWYSYG	294					
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQP....TKVGNDA	VANTVVKIKTKVKNKVAAPFKE	VELALVYGGKGFQDLS	DLVGLA	ADM	DI	IKKAGSFYSYG	307			
NTDB id 296178	DM810	RS02870	WP 110477766.1	SIRLDIRKGIQI.....KNGENI	LGNRTKVVKVKNKLSPPFK	TAEFDIMYGGEGISNIGE	ILDIGVNL	GI	IKKNGSWFHYG	295				
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRSLSDTGKIKDKSGEV	IGNRTKVKVKNKVAPPFKSAEFD	IMYGGEGVSKVGEILD	VATDLD	DI	IKKSGSWFSYQ	307				
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVATL.....KQNEEP	IGNRVKVKVKNKVAPPFR	QAEFDVDFGEGLSREGEL	IDYGVKLD	DIV	DKSGAWFSYK	294				
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAL.....KQNEQH	IGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLD	DIV	DKSGAWLSYQ	296				
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIASL.....KQNEQH	IGNRAKAKVVKNKVAPPFR	EAEFDIMFGEGISKEGEI	IDYGVKLD	DIV	DKSGAWLSYQ	296				
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGVV.....KDGDEI	IGSETKVKVKNKVAPPFR	EVQFDIMYGGEGISRMNELL	ILAEANGFI	IKKSGAWFSYD	310					
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NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEV	LGNETRVKVIKNKVAPPFR	QAEFDILYGGEGISWEGEL	IDIGVKN	DI	INKSGAWYSYN	294				
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGSI.....KKGEEV	LGNETRVKVIKNKVAPPFR	QAEFDILYGGEGISWEGEL	IDIGVKN	DI	INKSGAWYSYN	294				
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGSI.....KKGDEV	VGNETKVKVKNKVAPPFR	EAFIDILYGGAGVSREGEI	IDL	GVEAKV	VEKSGAWYSYN	302				
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGAI.....KEGEEV	VGNETRIKVVKNKIAAPFKE	ANTQIMYGGGFNREGEL	IDL	GVKHKM	VEKSGAWYSYN	293				
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGAI.....KEGEEV	VGNETRIKVVKNKIAAPFKE	ANTQIMYGGGFNREGEL	IDL	GVKHKM	VEKSGAWYSYN	293				
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGV.....KEGDEI	VGSETKVKVKNKMAPPFK	EAFIQILYGGKGTNQL	GELVDLAV	QQN	DIV	QKAGAWYSYQ	293			
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGV.....KEGDEI	IGSETKVKVKNKMAPPFK	EAFIQILYGGKGTNQL	GELVDLAV	QQN	DIV	QKAGAWYSYQ	293			
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGAV.....KEGDEV	VGSETRVKVVKNKVAPPFR	QAEFQILYGGKIYRNGE	IIDL	GVQQGL	VEKSGAWAYK	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 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 296178 DM810 RS02870 WP 110477766.1	...	330
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343
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 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 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved