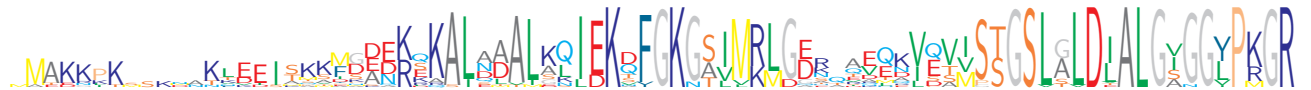


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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT....NFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLG	EA	.ANQKVS	VSSGSLALD	I	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK....KLEEISKKF	ERDKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK....KLEEISKKF	ERDKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK....KLEEISKKF	ERDKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK....KLEEISKKF	ERDKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK....KLDEISKKF	ERDKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK....KLDEISKKF	ERDKALNDALKL	IEKD	FGKGSIMRLG	ER	.AEQKVQVMSSGSLALD	I	ALGSGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK....KNEEITKKF	DERKALDDALKN	IEKD	FGKGVMLR	GER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK....KTEEITKKF	DERKALDDALKN	IEKD	FGKGVMLR	GER	.AEQKVQVMSSGSLALD	I	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQ	FGKGSIMKLG	EK	.TDTR	ISTVPSGSLALD	I	ALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKN	FGKGSIMRM	G	EK	.VDTQVSTVSSGSLALDEALGVGGYPRGR	60			
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAM	IEKA	FGKGSIMKLG	AE	.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72				
NTDB id 99262 QMG60 RS04360 WP 057115437.1	.....MSSDK	EAKLKALQLTLDK	LDKT	YGKGTVMKMG	DRAIV	.EVETISSGSLGVDLALGVNGYPRGR	62			
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTE..TTSPNDDKKKALAAVLEK	LDKT	YGKGTVMKLG	DGTVDHN	IEV	IPSGSLGLDLALGVGGYPRGR	68			
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKT	FGKGTILRLG	DK	.EVEQIDSIGTGSVGLDLALGIGGVPRGR	59				
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAID	EDKQKALISLAIKQ	IDKV	FGKALVRLG	DK	.QVEKIDSISTGSLGLDLALGIGGVPRGR	61			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAID	EDKQKALISLAIKQ	IDKV	FGKALVRLG	DK	.QVEKIDAISTGSLGLDLALGIGGVPRGR	61			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTVV..KQVEP	EKKQKALEAALAQ	IEKQ	FGKGSIMKLG	QT	.EQLDIESVSTGSLGLDLALGIGGLPMGR	76			
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKS	FGKGAIMKMDGSQ	Q	Q	EEENLEVISTGSLGLDLALGVGGLPRGR	60			
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKS	FGKGAIMKMDGSQ	Q	Q	EEENLEVISTGSLGLDLALGVGGLPRGR	60			
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKS	FGKGAIMKMDGSQ	Q	Q	EEENLEVISTGSLGLDLALGVGGLPRGR	60			
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KK..AASMSAEKQKALAAALAQ	IEKQ	FGKGSIMKMG	DA	.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGSIMRLG	DN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQ	IEKQ	FGKGSIMRLG	DN	.RAMDVETISTGSLSLDI	ALGAGGLPMGR	59			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQ	IEKQ	FGKNTVMRLG	DN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQ	IEKQ	FGKNTVMRLG	DN	.TVQAVEAVSTGSLTLDI	ALGIGGLPKGR	59			
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQ	IEKQ	FGKGVMLR	GDH	.DRQAIPSISTGSLGLDI	ALGIGGLPKGR	59			
consensus		*** **	**	**!	*****	*	***!****!!	!!	!!!	





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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKIKTKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGITIKKSGAWFAYN	312
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGNTQIKGTG.DQKETNIGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSNIGKETKIKVVKNKVAPPFKVAEVEIMYGGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKAEAFVEIIMYGEGISRTGELVKIASDLGIQKAGAWYSYN	311
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEITDLGTELDIVQKSGSWYSYE	292
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIGQP....TKVGNDAVANTVVKIKTVKNKVAAPFKAEVELALVYGGKGFQDLSLDLVGLAADMDIINKKAGSFYSYG	307
NTDB id 99262	QMG60	RS04360	WP 057115437.1	SVRLDIRRSAQI.....KDGENVIGNRTKVKIKVKNKVAPPFKTAEFDIMYGEGVSKTGEILDIAVEFDIVKKAGSWFSYQ	296
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1245	Cj1673c	YP 002345041.1		SVRLDVRKVATL.....KQNEEPIGNRVKVVKNKVAPPFRQAEFDMVFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIASL.....KQNEQHIGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEITDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIAAAL.....KQNEQHIGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEITDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCGVV.....KDGDEIIGSETKVVKNKVAPPFRVQFDIMYGEGISRMNELLILAEANGFITIKKSGAWFSYD	310
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEVLGNETRKKVKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTGSI.....KKGEEVLGNETRKKVKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTGSI.....KKGEEVLGNETRKKVKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIGSI.....KKGDEVVGNETKVVKNKVAPPFRQAEFDILYGGAGVSREGEITDLGVEAKVVEKSGAWYSYN	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTGAI.....KEGEEVLGNETRKKVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTGAI.....KEGEEVLGNETRKKVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIGV.....KEGDEIVGSETKVVKNKMAPPFKEAIFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIGV.....KEGDEIVGSETKVVKNKMAPPFKEAIFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTGAV.....KEGDEVVGSSETRKVVKNKVAPPFRQAEFQILYGGKIYRNGEITDLGVQQGLVEKSGAWAYK	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 99262 QMG60 RS04360 WP 057115437.1	...	335
NTDB id 1334 RAOC RS04870 WP 004918236.1	...	343
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 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