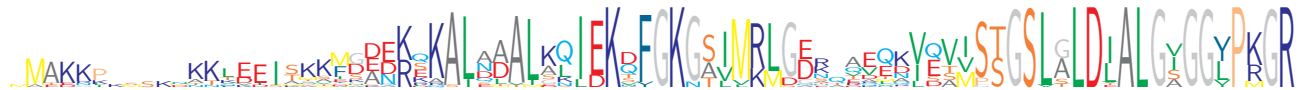


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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	I	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKFQ	DERKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKFQ	DERKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVM	SSGSLALDI	I	ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	EK.TDTRISTV	PSGSLALDI	I	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRM	GEEK.VDTQVSTV	SSGSLALDE	I	ALGVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAK	ERSKATETAM	SQIEKAFGKGSIMKLG	AE.SKLDVQVV	STGSLSLDI	I	ALGVGGIPRGR	72
NTDB id 409995 GQR95 RS04560 WP 159022039.1	.....MSKEKEAKLKALQLTLDK	LDKTYGKGTVMR	MSDKAV.VDIEAIP	SGSLGLDI	I	ALGVGGYPRGR	62	
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTE..TTSPND	DKKALAAVLEK	LDKTYGKGTVMK	LDGTVDHNIEV	IPSGSLGLDI	I	ALGVGGYPRGR	68
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRL	GDK.EVEQIDS	IGTGSVGLDI	I	ALGIGGVPKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLATIKQ	IDKVF	FGKALVRLGDK.QVEKIDA	ISTGSLGLDI	I	ALGIGGVPKGR	61	
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLATIKQ	IDKVF	FGKALVRLGDK.QVEKIDS	ISTGSLGLDI	I	ALGIGGVPKGR	61	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTVV..KQVEPE	QKQKALEAAL	LAQIEKQFGKGSIMKLG	QT.EQLDIESV	STGSLGLDI	I	ALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1MSDDKSKALAAAL	LAQIEKSF	GKGAIMKMDGSQ	QEEENLEVI	STGSLGLDI	I	ALGVGGLPRGR	60
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NTDB id 1165 A1552VC RS01565 WP 000344154.1MDENKQKALAAAL	LGQIEKQFGKGSIMRL	LDN.RAMDVET	ISTGSLSLDI	I	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAAL	LGQIEKQFGKGSIMRL	LDN.RAMDVET	ISTGSLSLDI	I	ALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALS	QIEKQFGKNTVM	RLGDN.TVQAVEA	VSTGSLTLDI	I	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALS	QIEKQFGKNTVM	RLGDN.TVQAVEA	VSTGSLTLDI	I	ALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAAL	LGQIEKQFGKGAVMR	MDH.DRQAIPS	ISTGSLGLDI	I	ALGIGGLPKGR	59	
consensus		*** **	**	**!	*****	*	***!!*!!*!!*!!*!!*!!*!!*!!	

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	E	I	E	I	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	I	E	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	I	E	E	384
NTDB id 453 Spy49 1753c ACI62003.1	E	I	E	D	.	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	E	L	E	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 409995 GQR95 RS04560 WP 159022039.1	.	.	.	.	.	.	336
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 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