

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGER	.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 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKFQ	DERKKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKFG	DERRKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVMSSGSLALDI	I	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ	IEKQFGKGSIMKLG	EK.TDTRISTVPSGSLALDI	I	ALGIGGYPRGR	58		
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVSTVSSGSLALDEAL	GVGGYPRGR	60			
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAK	ERSKATETAM	QIEKAFGKGSIMKLGAE	.SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72		
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR	59			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAIVRLGDK	.QVEKIDISTGSLGLDL	ALGIGGVPKGR	61		
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLA	IKQIDKVF	FGKGAIVRLGDK	.QVEKIDISTGSLGLDL	ALGIGGVPKGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETSPND	DKKALAAVLEKLD	KTYGKGTVMKLG	GTVDHNI	IEVIPS	GLGLDLALGVGGYPKGR	68	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKSF	FGKGAIMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPRGR	60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKSF	FGKGAIMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPRGR	60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQ	IEKSF	FGKGAIMKMDGSQ	QENLEVISTGSLGLDL	ALGVGGLPRGR	60		
NTDB id 142602 LA76x RS09385 WP 031371767.1	.....MDENKKRALSAALS	QIEKQFGKGSVMRMGDR	.AVEAAEVIGTGSMLDL	I	ALGIGGLPKGR	59		
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMSA	EKQKALAAALAQ	IEKQFGKGSIMKMGDA	.EVEPVQVVSTGSLGLD	VALGVGGLPRGR	68		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPE	QKKQKALEAALAQ	IEKQFGKGSIMKLGQT	.EQLDIESVSTGSLGLDL	ALGIGGLPMGR	76	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	I	ALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVETISTGSLSLDI	I	ALGAGGLPMGR	59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	I	ALGIGGLPKGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEAVSTGSLTLDI	I	ALGIGGLPKGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKKRALAAALG	QIEKQFGKGAVMRMGDH	.DRQAIPSISTGSLGLDI	I	ALGIGGLPKGR	59		
consensus		*** **	***	**	***!	*!!*****	*	***!!*!!*!!*!!*!!*!!*!!*!!*!!*!!





logo



NTDB id 600 KW2 RS01765 WP 011675413.1	ASVRLDVRGSTKIEEGS.GDNKTQIGKI	TKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAY	311
NTDB id 269 KZH43 RS08665 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310
NTDB id 228 SPD RS09265 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310
NTDB id 194 SPR RS08825 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310
NTDB id 159 SP RS09750 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310
NTDB id 499 SM12261 RS08315 WP 0028228268.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310
NTDB id 408 SMU RS09530 WP 002262392.1	SSVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGI	IQQKAGAWYSY	310
NTDB id 453 Spy49 1753c ACI62003.1	ASVRLDVRGTTQIKGTG.DQKSS	IGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDI	IQQKAGAWFSY	310
NTDB id 115 BSU 16940 NP 389576.2	SSVRLVRRAEQLKQGN.....DVM	GNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEITD LGTEL	DIVQKSGSWYSY	291
NTDB id 625 LCA RS02525 WP 011374196.1	STVRLVRRAEETIKNGT.....DM	IGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEKDI	INKSGSWYSY	293
NTDB id 1313 DR RS12030 WP 010888966.1	ASVRLDVRKIGQ....PTKVGND	AVANTVKIKTIVKNKVAAPFKEVELALVYKGFQDLSDLVGLA	ADMDITKKAGSFYSY	306
NTDB id 1245 Cj1673c YP 002345041.1	ASVRLDVRKIVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVDFGEGLSREGELIDYGVKLD	DIVDKSGAWFSY	293
NTDB id 1214 NCTC11637 00359 SQJ03206.1	ASVRIDIRRIAA....L.KQNEQH	IGNRAKAKVVKNKVAPPFREAEFDFIMFGEGISKEGEIIDYGVKLD	DIVDKSGAWLSY	295
NTDB id 1211 C694 RS00795 WP 000963128.1	ASVRIDIRRIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFREAEFDFIMFGEGISKEGEIIDYGVKLD	DIVDKSGAWLSY	295
NTDB id 1334 RAOC RS04870 WP 004918236.1	ASVRIDIRRSLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDI	IQQKSGSWFSY	306
NTDB id 1130 NGFG RS03960 WP 003688695.1	SSVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDI	INKSGAWYSY	293
NTDB id 1124 NGFG RS03960 WP 003688695.1	SSVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDI	INKSGAWYSY	293
NTDB id 1123 OK783 RS03845 WP 003688695.1	SSVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYGEGISWEGELIDIGVKNDI	INKSGAWYSY	293
NTDB id 142602 LA76x RS09385 WP 031371767.1	ASVRLDIRRIGA....I.KKGEI	IGNQTKIKVVKNKLAPPFKVLTTEILYGEGISREGELIDMGVEAKL	VEKSGAWYSC	294
NTDB id 1427 RS RS02760 WP 011000510.1	ASVRLDIRRIGS....I.KKGEV	GNETKVVKNKVAPPFREAIQFDILYGAGVSRGEITD LGVEAKV	VEKSGAWYSY	301
NTDB id 1389 A4U84 RS07560 WP 021112712.1	ASVRLDIRRCGV....V.KDGDEI	IGSETKVVKNKVAPPFREVFQFDIMYGEGISRMNELLILAEANGFI	KKSGAWFSY	309
NTDB id 1165 A1552VC RS01565 WP 000344154.1	ASVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPPFKEANTQIMYGGFNREGELIDLGVKHK	MVEKSGAWYSY	292
NTDB id 1142 GTF74 RS11550 WP 000344154.1	ASVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPPFKEANTQIMYGGFNREGELIDLGVKHK	MVEKSGAWYSY	292
NTDB id 1022 ACIAD RS06390 WP 004925639.1	ASVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFREAIQFQILYKGVNQLGELVDLAVQQN	IVQKAGAWYSY	292
NTDB id 1074 ABD1 RS10195 WP 000344167.1	ASVRLDIRRIGQ....V.KEGDEI	VGSETKVVKNKMAPPFKEAIQFQILYKGVNQLGELVDLAVQQN	DIVQKAGAWYSY	292
NTDB id 1205 PSJM300 05545 AFN77183.1	ASVRLDIRRTGA....V.KEGDEV	VGSETRVKVVKNKVAPPFRQAEFQILYKGIYRNGETID LGVQQGL	VEKSGAWYAY	292
consensus	**!!**!*	* ** *****!!!!!!* * *****!*** **	*** ! !*****	



logo

NTDB id 600 KW2 RS01765 WP 011675413.1	....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
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 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 142602 LA76x RS09385 WP 031371767.1	....	341
NTDB id 1427 RS RS02760 WP 011000510.1	....	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372
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