

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA . ANQKVS VSSGSLALDI ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER. AEQKVQVMSSGSLALDI ALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK.....LKKNEEITKKFGERERKALDDALKNIEKD FGKGVMLRGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFGERERKALDDALKNIEKD FGKGVMLRGER. AEQKVQVMSSGSLALDI ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK. TDTRISTVPSGSLALDI ALGIGGYPRGR	58
NTDB id 258750 CXB72 RS07745 WP 003546531.1	.....MAKDEKKAALDAALKKIEKNFGKGVMMRMEK. ADTQISTVPTGSLALDAALIGVGGYPRGR	60
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK. VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSI EKAFGKGSIMKLGAE. SKLDVQVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKTFGKGTILRLGDK. EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK. QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GKGALVRLGDK. QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSFNDDKKKALAAVLEKLDKTYGKGTVMKLG DGTVDHNIIEVIPSGLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT. EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA. EVEPVQVSTGSLGLDV ALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN. RAMDVETISTGSLSLDI ALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN. TVQAVEAVSTGSLTLDI ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRRALAAALGQIEKQFGKGVMMRMDH. DRQAIPSI STGSLGLDI ALGIGGLPKGR	59
consensus	*** ** * **! *!***** * **!!*!!*!!*!! *! *!*	

logo



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 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311					
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGISRTGELVKIASDL	DI	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.D...V	MGNKTKIKVVKNKVAPPFR	TAEVDIMYGEGISKEGET	IDLGTELDIVQKSGSWYSYE	292					
NTDB id 258750 CXB72 RS07745 WP 003546531.1	TVRLEVRRAEAIKQSG.D...V	LGNRVVKIKVVKNKVAPPFKVAEVDIMYGKGISQSGELLDMAADK	DI	IDKAGSWYSYK	294					
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.D...M	IGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAVEK	DI	INKSGSWYSYG	294					
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ...PTKVGND	AVANTVKIKTVKNKVAAPFKEVELALVYGGKGFQDLS	DLVGLAADM	DI	IKKAGSFYSYG	307				
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT...L.KQNE	EPIGNRVKIKVVKNKVAPPFRQAEFDVIMFGEGLSREGELIDYGVK	LDIVDKSGAWFSYK	294						
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNE	QHIGNRAKAKVVKNKVAPPFR	AEAFDIMFGEGISKEGET	IDYGVKLDIVDKSGAWLSYQ	296					
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNE	QHIGNRAKAKVVKNKVAPPFR	AEAFDIMFGEGISKEGET	IDYGVKLDIVDKSGAWLSYQ	296					
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKIKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATD	LDIIQKSGSWFSYQ	307						
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KGD	DEIIGSETKIKVVKNKVAPPFR	EVQFDIMYGEGISRMNELLILA	EANGFIKKS	GAWFSYD	310				
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFDILY	GEGISWEGELIDIGVKN	DI	INKSGAWYSYN	294			
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFDILY	GEGISWEGELIDIGVKN	DI	INKSGAWYSYN	294			
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKG	EEVLGNETR	VKVIKKNVAPPFRQAEFDILY	GAGVSREGEIDL	GVKAKVVEK	SGAWYSYN	302			
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGA...I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLG	VKHKMVEK	SGAWYSYN	293				
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLG	VKHKMVEK	SGAWYSYN	293				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEG	EEVVGNETRIKVVKNKIAAPFKEANTQIMYGG	GFNREGELIDLG	VKHKMVEK	SGAWYSYN	293				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEG	DEIIGSETKIKVVKNKMAPPFKEAIFQILY	GKGVNQLGELVDLAVQQ	NIVQK	KAGAWYSYQ	293				
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEG	DEIIGSETKIKVVKNKMAPPFKEAIFQILY	GKGTNQLGELVDLAVQQ	DIVQK	KAGAWYSYQ	293				
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEG	DEVVGS	ETRVKVVKNKVAPPFRQAEFQILY	GKGIYRNGEIDL	GVQQGLVEK	SGAWAYK	293			
consensus	*!****!*	*	**	*****!*****!*****!*	*	*****!*****	*****	*	*****	!*****!

logo

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 258750 CXB72 RS07745 WP 003546531.1	...	363
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 1211 C694 RS00795 WP 000963128.1	...	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...	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 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