

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSLMRLGEA.ANQKVS	VSSGSLALDIALGAGGYPKGRI	75
NTDB id 269 KZH43 RS08665 WP 001085462.1	MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSLMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSLMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSLMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	MAKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSLMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	MAKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSLMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	MAKKPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSLMRLGER.AEQKVQV	MSSGSLALDIALGSGGYPKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	MAKKLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQV	MSSGSLALDIALGAGGYPKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	MAKRIKKTEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQV	MSSGSLALDIALGAGGYPKGRI	74
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDIALGIGGYPGRGI	59	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPGRGI	61	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPGRGI	73	
NTDB id 42357 FBFL15 RS13725 WP 014085149.1	MAAKDTADKT..SNEKEARLKALQLTLDDKLDKTYGKGTVMKMGDRAIV.EVETISSGSLGLDLALGVNGYPGRGI	72	
NTDB id 1334 RAO RS04870 WP 004918236.1	MAKT...ET..TSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGRI	69	
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVVPKGRI	60	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVFSGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVVPKGRI	62	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVFSGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVVPKGRI	62	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTVVK..QVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRI	77	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRI	61	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRI	61	
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRI	61	
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....KKA..ASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRV	69	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRI	60	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDNKKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRI	60	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRI	60	
consensus	*** **	***! *!***** *	***!***!***! *

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESSGKTTVALHAVA	AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELL	LSQPDYGEQGLQIAEKLITSGAVDLV	155			
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESSGKTTVALHAVA	AQAQKEGGIAAFIDAHAELDPAYAAALGVNIDELL	LAQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPESSGKTTVALHAVA	AQAQKDGGAFAIDAHAELDPAYAAALGVNIDELL	LSQPDSEGGGLEIAGKLIDSGAVDLV	154			
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESSGKTTVALHAI	AEVQQGGQAFAIDAHAELDPVYAQKLGVNIEELL	LSQPDTEGQALEIAEALVRSGAVDIV	139			
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESSGKTTVALHAVA	AEVQKGGTAAYIDAENAMD	PKYATALGVNIDDLLS	QPDTEGQGLEIADALVSSGAVDIL	141		
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESSGKTTLALAI	IVAQAQKAGGTCAFIDAHAELDPVYARALGVNTDELL	VSQPDNGEQALEIEMELLVRSGAIDVV	153			
NTDB id 42357 FBFL15 RS13725 WP 014085149.1	IEIYGPESSGKTTTLHAI	IAEAQKAGGIAAFIDAHAELDRHYAEKLGVDIENLI	ISQPDNGEQALEIAENLIRSGAIDIV	152			
NTDB id 1334 RAO RS04870 WP 004918236.1	VEIYGPESSGKTTTLHAI	IAEAQKVGGTAFAIDAHAELDMHYAEKLGINLEEL	IVSQPDNGEQALEIADSLIRSGVDIV	149			
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESSGKTTTLHAI	IAECQKAGGVCAFIDAHAELDVKYAKNLGVNTD	DLVSQPDFGEQALEIVETIARSGAVDLI	140			
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESSGKTTLSLHI	IAECQKNGGVCAFIDAHAELDVHYAKRLGVDTENLL	VSQPDTEGQALEILETITRSGGIDLV	142			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESSGKTTLSLHI	IAECQKNGGVCAFIDAHAELDVHYAKRLGVDTENLL	VSQPDTEGQALEILETITRSGGIDLV	142			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESSGKTTTLSLI	IAQAQKGNKTCFIDAHAELDPVYARNLGVNTELL	ISQPDNGEQALEICDALVRSGAVDVI	157			
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTLCLEA	VAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELY	LSQPDTEGQALEICDTLVRSGGIDMV	141			
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESSGKTTLCLEA	VAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELY	LSQPDTEGQALEICDTLVRSGGIDMV	141			
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESSGKTTLCLEA	VAQCQKNGGVCAFVDAEHAFDPVYARKLGVKVEELY	LSQPDTEGQALEICDTLVRSGGIDMV	141			
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESSGKTTTLTQV	VAEMQKLGGTCAFIDAHAELDVYADKLGVKVPD	LLISQPDTEGQALEIADALVRSGSVDLI	149			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESSGKTTTLLEL	IAAAQREGKTCFIDAHAELDPVYAKKLGVNIDELL	VSQPDTEGQALEICDALARSGAVDVI	140			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESSGKTTTLLEL	IAAAQREGKTCFIDAHAELDPVYAKKLGVNIDELL	VSQPDTEGQALEICDALARSGAVDVI	140			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESSGKTTMTLQAI	IAQCQKSGGTCAFIDAHAELDPQYARKLGVDIDNLL	VSQPDNGEQALEIADMLVRSGAIDLVI	140			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESSGKTTMTLQAI	IAQCQKAGGTCAFIDAHAELDPQYARKLGVDIDNLL	VSQPDHGEQALEIADMLVRSGAIDLVI	140			
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESSGKTTTLTSLV	IAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVD	DLVSQPDTEGQALEITDMLVRSNAVDVI	140			
consensus	*!*!!!!*!!!!*	!*!!	!* **	!!!!!!*!!*!!	!!	!!!!*****!!!!!!*!!	* ****!*****

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDV	FEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLGDE	LEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLGDE	LEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLGDE	LEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE....PKKEEA	..VNEEVPLDLGDE	LEIEI	386
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIF	FEIDHQVRVQFGL	IDGEEIAES....	KKDE....AAQVDS	..VNEEVTLDLGDE	LEIEI	382
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEV	FAEIDHQVRVQFGL	IDGEEAAES....	KKDE....VAQVDS	..VNEEVTLDLGDE	LEIEI	382
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQL	FDEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLNNGIE	IED	378
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKE	K.....ETDEK...	ADKNLVLELDDTIE	LED	383
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKD	IMLMIQEQIREHY	GLDNNGVVQQQAE	ETQEEL.EFE.E.....	.....	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHED	VEDEVRLKVRAA	YGISDVPEEDLPT	TEDE.QI.NILPDD	ST.....EE.....	.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAIYTAER	PEMEQEIRDRV	MAAIRAGNAGEA	PALAPAPAAPEAA	EA.....	.....	363
NTDB id 42357 FBFL15 RS13725 WP 014085149.1	TKLGGQ	RDVAKALIKDN	PELADELEEKIK	LKIKESNVN.....	.....	.....	.....	344
NTDB id 1334 RAO RS04870 WP 004918236.1	TKLGGQ	RDTVKELIKDN	PELAEELEAKI	REKLQAK.....	.....	.....	.....	343
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGG	RENSKAFLEN	PEIADEITKAI	QNSMGT	EGMIS.....GSE	DEE..GEE.....	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGG	RENALLKEDK	ALADEITLIK	ESIGSNEEIM.....	PLPDEP..LEEME	.....	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGG	RENALLKEDK	ALADEITLIK	ESIGSNEEIM.....	PLPDEP..LEEME	.....	.....	347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLEN	PEIADKLEQEI	RNTLASNPNSV.....	LKATASDSNDESD	..VEEFSEEEL.....	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKEN	PEISDEIDAKI	RALNGVEMHIT.....	EGTQDETD.....	GERPEE.....	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKEN	PEISDEIDAKI	RALNGVEMHIT.....	EGTQDETD.....	GERPEE.....	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKEN	PEISDEIDAKI	RALNGVEMHIT.....	EGTQDETD.....	GERPEE.....	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFLRENA	ELAREIENKVRE	HLGVTPMGA....	V.TLAEEVEED.....	.....	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLEN	PEIAKTLDKKL	REMLLNPNENMQ.....	LIAETSSAADDVE	..FGAVPEEF.....	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLEN	PEIAKTLDKKL	REMLLNPNENMQ.....	LIAETSSAADDVE	..FGAVPEEF.....	.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEEN	NQIAEEIERN	IREQLLTTGTNG.....	AVQ.I.EDEE	EPD...LLES.....	.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEEN	PQISTEIEAV	IREQLLTKASDQ.....	TAA.HDETEE	EPD...LLES.....	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACKYLEEN	PEIGQIEEQI	RAKLLVTSANT.....	KATPVAEDLADAD	I.....	.....	347
consensus	**!	***	**	*****	*****	**	**	

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 408 SMU RS09530 WP 002262392.1	..	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 42357 FBFL15 RS13725 WP 014085149.1	..	344
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