

logo



NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLEEISKKFGEERDKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGEERDKALDDALKNIEKD FGKGVMLRGER.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGEERRKALDDALKNIEKD FGKGVMLRGER.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDI	TALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDL	ALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDL	ALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1MAKT..ETTSPNDDKKKALAAVLEK LDKT YGKGTVMKLG DGTVDHNI	IEVIPSGSLGLDL	ALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDL	ALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSF GKGAIMKMDGSQEEENLEVISTGSLGLDL	ALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQV	VSTGSLGLDVALGVGGLPRGR	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 40766 PSEFU RS06680 WP 013790433.1MDENKRRALAAALGQIEKQFGKGVMMRGDH.DRQAIPAI	ISTGSLGLDI	ALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQIEKQFGKGVMMRGDH.DRQAIPSI	ISTGSLGLDI	ALGIGGLPKGR	59
consensus	*** ** * ** *! *!***** * **!!!*!!*!!! !! *!*			

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NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 40766 PSEFU RS06680 WP 013790433.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



DEKIGQGA EKAKNYLKEHQDV FDEIDHKVRAAHGL LDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED 387
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDEIDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNEEVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAADNPEVFAEIDHQVVRVQFGL IDGEEAAE SKKDE VAQVDS . . VNEEVTLDLGDELEIE 381
 DEKIGQGS ENAKKYLAADNPEIFDEIDHQVVRVQFGL IDGEEIAE SKKDE AAQVDS . . VNEEVTLDLGDELEIE 381
 GEKIGQGS ENAKKFLADNPEIFDDIDHKVVRVQYGL IEEDNTEEKQSSKEK ETDEK ADKNLVLELDDTIELE 382
 GEKIGQGS ENAKRYLADHPQLFDEIDRKVVRVQFGL LEESEEEESAMAVASE E TDDLALDLDNGIEIE 377
 EERLGQGR ENAKQFLKENKDIMLMIQEIQREHYGL DNNGVVQQAEETQEEL . E . F . E 348
 SERIGQGR ENAKNYLADHEDVEDEVRLKVRVRAAYGISDVPPEEDLPTTEDE . QI . NILPDDST EE 355
 DERIGQG KEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAE . . A 363
 DKKLGQGR ENSKAFLKENPEIADEITKAIQNSMGI EGM ISGSEDDEG . . E . . E 343
 DKKLGQGR ENAKALLKEDKALADEITLKI KESIGSNEE IMPLPDEPL . . E . . EME 347
 DKKLGQGR ENAKALLKEDKALADEITLKI KESIGSNEE IMPLPDEPL . . E . . EME 347
 DTKLGQGR DTVKELIKDNPELAELEAKIREKLQAK 343
 GTKIGQGN NNAVKWLKENPEIADKLEQEIRNTL A SNP SVLKATASDSND . . ESDVEEFSEEL 372
 GAKIGQGD NVRVWLKENPEISDEIDAKIRALNGVEMH ITEGTQDET DGE RPEE 348
 GAKIGQGD NVRVWLKENPEISDEIDAKIRALNGVEMH ITEGTQDET DGE RPEE 348
 GAKIGQGD NVRVWLKENPEISDEIDAKIRALNGVEMH ITEGTQDET DGE RPEE 348
 GERIGQGR D NCREFLRENAELAREIENKVRHLGVTPM GAVTLAE VE . ED 352
 GDKIGQGN ANACKYLKENPEIAKTLDKKLREMLLN PEN MQLIAETSSAAD . . DVE . FGAVPEEF 354
 GDKIGQGN ANACKYLKENPEIAKTLDKKLREMLLN PEN MQLIAETSSAAD . . DVE . FGAVPEEF 354
 GNKIGQGN NVIRYLEENPQISTEIEAVIREQLLTKAS DQTAH DET EEE . PDLLES 349
 GNKIGQGN NVIRYFEENNQIAEEIERNIREQLLTTGT NGAVQI ED EEE . PDLLES 349
 GNKIGQGN ANAAKFLDNQEVAREIEGQIRDKLLV VSG PAKANAPASDLV . . DTE . ADF 349
 GSKIGQGN ANAAKYLEENPEIGQIEIQQIRAKLLV TSA NTKATPVAEDLA . . DAD . I 347

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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 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	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
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	...	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
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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 40766 PSEFU RS06680 WP 013790433.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved