

logo

NTDB id 1159 ABDM36 RS04765 WP 001166105.1
NTDB id 1150 A1552VC RS08580 WP 001166105.1
NTDB id 1395 DSB67 RS04445 WP 010649155.1
NTDB id 1362 HI 1008 AAC22669.1
NTDB id 1382 A4U84 RS07375 WP 062924234.1
NTDB id 595 KW2 RS08725 WP 021037687.1
NTDB id 521 SMSK321 RS04960 WP 000443804.1
NTDB id 493 SM12261 RS04300 WP 000387351.1
NTDB id 263 KZH43 RS04195 WP 000387330.1
NTDB id 222 SPD RS04535 WP 000387330.1
NTDB id 188 SPR RS04295 WP 000387330.1
NTDB id 153 SP RS04730 WP 000387344.1
NTDB id 1069 ABD1 RS03060 WP 043960841.1
NTDB id 1041 HON27 RS14740 WP 005124713.1
NTDB id 36 MW RS08230 WP 001793467.1
NTDB id 20 SA RS08005 WP 001802022.1
NTDB id 105 BSU 25590 NP 390437.1
NTDB id 1014 ACIAD RS13855 WP 004924483.1
NTDB id 1127 NGFG RS10560 WP 003703428.1
NTDB id 1126 NGFG RS09375 WP 003703428.1
NTDB id 1125 NGFG RS07215 WP 003703428.1
NTDB id 1108 NGFG RS06525 WP 003703428.1
NTDB id 288443 CJ12661 RS00050 WP 002922274.1
NTDB id 1242 Cj0011c YP 002343483.1
consensus

MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVAAVSKDLVSEKEVSKKEEKEEPL
.....
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.....
.....
.....MEKILDKLKEYWKIM.LLVVCALIAGGIFYIFTNSPKPAETLSVEN....LSSS..STKSSSVSKFNSSSSSEK65
.....MESIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKKEEKEEPV69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDSVSEKEVKKKEEKEEPL69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKKEEKEEPL69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVKKKEEKEEPL69
.....
.....
MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK80
MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK80
.....MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVKQEANNDE57
.....
.....MSRGG5
.....MSRGG5
.....MSRGG5
.....MSRGG5
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NTDB id 1382 A4U84 RS07375 WP 062924234.1
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NTDB id 521 SMSK321 RS04960 WP 000443804.1
NTDB id 493 SM12261 RS04300 WP 000387351.1
NTDB id 263 KZH43 RS04195 WP 000387330.1
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NTDB id 1041 HON27 RS14740 WP 005124713.1
NTDB id 36 MW RS08230 WP 001793467.1
NTDB id 20 SA RS08005 WP 001802022.1
NTDB id 105 BSU 25590 NP 390437.1
NTDB id 1014 ACIAD RS13855 WP 004924483.1
NTDB id 1127 NGFG RS10560 WP 003703428.1
NTDB id 1126 NGFG RS09375 WP 003703428.1
NTDB id 1125 NGFG RS07215 WP 003703428.1
NTDB id 1108 NGFG RS06525 WP 003703428.1
NTDB id 288443 CJ12661 RS00050 WP 002922274.1
NTDB id 1242 Cj0011c YP 002343483.1
consensus

EQDLITVDYKGAVKSPGYYDITYKRNPKVLYLCLM...SKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAAV
.....MQIKT.KIVTFLSLCLPTLP LLANAEETAPAAQ.....33
.....MQIKT.KIVTFLSLCLPTLP LLANAEETAPAAQ.....33
.....MKWMLTLC LLILAPMSWAE.TKTKAD.....25
.....MKT.L.FTSVVLGALVSSSF.AEEKATXQTAQSVV.....TTQA.....38
.....MKK.LSRYTFSLLFG.LFSATTFAEEKVTTSTEHTPV.....VMQQ.....39
NKNEIMVDLXGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSS133
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
EQDLITVDYKGAVKSPGIYDLSPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA137
.....MQYSMRFWKN...K.YFVLLIMLCLGVISPSVCAQSFDQNFQEWKVKQKM..YDQKL.....50
.....MQYSMRFWKN...K.YFVLLIMLCLGVISPSVCAQSFDQNFQEWKVKQKM..YDQKL.....50
NKGVPVYVDYKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSQLNSEKLTQDKMIFIPHKGQKNV147
NKGVPVYVDYKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQDKMIFIPHKGQKNV147
SNETIVIDIKGAVQHGPVYEM.RTGDRVS.....QAI...EKAGGTSEQADEAQVNLAELQDGTVVYIPKKGEEA125
.....MSIRHFFT...FEWAT.....LLTLFSMQI...VFAAGGFDQQYDAW.....KTQQKAHDTR45
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLCML.....43
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLCML.....43
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLCML.....43
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLCML.....43
.....MKKLLFLF..F.....9
.....MKKLLFLF..F.....9
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logo

NTDB id 1159 ABDM36 RS04765 WP 001166105.1	VEEGIVITVNINTASAEELATLLKGGIGLKKAAQIVDYREANGPFTHIDDLTNVKGIGEATVR	95
NTDB id 1150 A1552VC RS08580 WP 001166105.1	VEEGIVITVNINTASAEELATLLKGGIGLKKAAQIVDYREANGPFTHIDDLTNVKGIGEATVR	95
NTDB id 1395 DSB67 RS04445 WP 010649155.1	KYEGIEITVNVNSATAQEIATLLIGIGEKKAQDIVEYRNEHGPFKTAADLTQVKGIGEATVR	87
NTDB id 1362 HI 1008 AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSLTGIGAKKAEIVQYREKHGNFXNAEQQLLEVQGGIGKATLE	104
NTDB id 1382 A4U84 RS07375 WP 062924234.1	VAATQKVNANVVNINTATASEIQDKLVGIGAKKAAQIVVEYREKNGKFLNVEQLTEVSGIGKATLE	104
NTDB id 595 KW2 RS08725 WP 021037687.1	SESTDSPGTG...SSVSNQISTTSGPKVNINKADITELQK.LTGIGQKKAQDIIDFRMKNNGDFKSIEDLGKVSFGGDKTLE	209
NTDB id 521 SMSK321 RS04960 WP 000443804.1	SQHTGSGAP.....SSTSKDKKINLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIE	207
NTDB id 493 SM12261 RS04300 WP 000387351.1	SQAGPGTA.....SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGAKTIE	207
NTDB id 263 KZH43 RS04195 WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIE	207
NTDB id 222 SPD RS04535 WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIE	207
NTDB id 188 SPR RS04295 WP 000387330.1	SQQTGLGTA.....SSISKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIE	207
NTDB id 153 SP RS04730 WP 000387344.1	SQQTGSGTA.....SSTSKEKKVNLNKASLEELKQ.VKGLGGKRAQDIIDHREANGKFKSVDELKKVSGIGGKTIE	207
NTDB id 1069 ABD1 RS03060 WP 043960841.1	.NISKSSHSNSSKISQTKNFNDSTGQIHLNQANVNEFQQ.LKGIGEKKAAQIVVEYRQKNGSFKNIDEIKNVKGIGPAIFE	128
NTDB id 1041 HON27 RS14740 WP 005124713.1	.NITKSSHSNGSKISQTKNFNDSTGQIHLNQANVNEFQQ.LKGVGEKKAAQIVVEYRQKNGSFKNIDEIKNVKGIGPAIFE	128
NTDB id 36 MW RS08230 WP 001793467.1	EP....QIGVNS..VHVKNGTNTNTKVNLTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFSGSKTFD	220
NTDB id 20 SA RS08005 WP 001802022.1	EP....QIEVNS..VHVKNGTNTNTKVNLTASVSELMS.VPGVGQAKANAIVEYRNQQGAFQEIDDLKVKVGFSGSKTFD	220
NTDB id 105 BSU 25590 NP 390437.1	V....QQGGGGS..V..QSDGGKGALVNINTATLEELQG.ISGVGPSKAEAITAYREENGRFQTIEDITKVSIGIGEKSF	196
NTDB id 1014 ACIAD RS13855 WP 004924483.1	LNSSASHHSLSK..P..TQQSGTGKVNINASATAKELQQ.LHGVGEKKALAIVEYRQQYQKFAVDDDLQKVKGIGPKFIE	120
NTDB id 1127 NGFG RS10560 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 1126 NGFG RS09375 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 1125 NGFG RS07215 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 1108 NGFG RS06525 WP 003703428.1	FSCAFSLAAVNINAASQQELEA.LPGIGPAKAKAIAEYRAQNGAFKSVDDLIKVKGIGPAVLA	105
NTDB id 288443 CJ12661 RS00050 WP 002922274.1	TLTAFLFGAVNINTATLKLKLS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKGIGDKLFE	70
NTDB id 1242 Cj0011c YP 002343483.1	ALTAFLFGAVNINTATLKLKLS.LNGIGEAKAKAILEYRKE.ANFTSIDDLKVKGIGDKLFE	70
consensus	***! !** !* * !** !***!***!***! ** !***** *!***! ****	

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NTDB id 1159 ABDM36 RS04765 WP 001166105.1	NNAARILL.....	103
NTDB id 1150 A1552VC RS08580 WP 001166105.1	NNAARILL.....	103
NTDB id 1395 DSB67 RS04445 WP 010649155.1	KNEDRILL.....	95
NTDB id 1362 HI 1008 AAC22669.1	KNRDRIIF.....	112
NTDB id 1382 A4U84 RS07375 WP 062924234.1	KNRDRIIF.....	112
NTDB id 595 KW2 RS08725 WP 021037687.1	KLKDEISID.....	218
NTDB id 521 SMSK321 RS04960 WP 000443804.1	KLKDYVTVD.....	216
NTDB id 493 SM12261 RS04300 WP 000387351.1	KLKDYVTVD.....	216
NTDB id 263 KZH43 RS04195 WP 000387330.1	KLKDYVTVD.....	216
NTDB id 222 SPD RS04535 WP 000387330.1	KLKDYVTVD.....	216
NTDB id 188 SPR RS04295 WP 000387330.1	KLKDYVTVD.....	216
NTDB id 153 SP RS04730 WP 000387344.1	KLKDYVTVD.....	216
NTDB id 1069 ABD1 RS03060 WP 043960841.1	KNKSRLAL.....	136
NTDB id 1041 HON27 RS14740 WP 005124713.1	KNKSRLAL.....	136
NTDB id 36 MW RS08230 WP 001793467.1	KLKSYFTI.....	228
NTDB id 20 SA RS08005 WP 001802022.1	KLKSYFTI.....	228
NTDB id 105 BSU 25590 NP 390437.1	KIKSSITVK.....	205
NTDB id 1014 ACIAD RS13855 WP 004924483.1	KNRDRLAI.....	128
NTDB id 1127 NGFG RS10560 WP 003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB id 1126 NGFG RS09375 WP 003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB id 1125 NGFG RS07215 WP 003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB id 1108 NGFG RS06525 WP 003703428.1	KLKDAQSVGAPAPKGPAPVLPVAVKK	131
NTDB id 288443 CJ12661 RS00050 WP 002922274.1	KIKNDITVE.....	79
NTDB id 1242 Cj0011c YP 002343483.1	KIKNDITIE.....	79
consensus	**** **	

 non conserved
 similar
 $\geq 50\%$ conserved