

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	239481	CGZ78	RS00055	WP	002855574.1
NTDB	id	1242	Cj0011c	YP	002343483.1	
consensus						

MEALIEKIKYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVVAISKDLSSEKEVSKKEEKEEPL	
.....	0
.....	0
.....	0
.....	0
.....	0
.....MEKILDKLKEYWKIM.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS...STKSSVSKFNSSSSEK	65
.....MESIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSVSEKEVVKKEEKEEPL	69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDLVSEKEVNKEEKEEPL	69
.....MEAIIEKIKEYKIIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAISKDSSTEKEVKKEEKEEPL	69
.....	0
.....	0
MVLLYQFLLRYKDFLTQWKLYIISAVVLMVVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
MVLLYQFLLRYKDFLTQWKLYIISAVVLMVVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
.....MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPTE...TENTVVVKQEANNDE	57
.....	0
.....	5
.....	5
.....	5
.....	5
.....	0
.....	0

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NTDB	id	1125	NGFG	RS07215	WP	003703428.1
NTDB	id	1108	NGFG	RS06525	WP	003703428.1
NTDB	id	239481	CGZ78	RS00055	WP	002855574.1
NTDB	id	1242	Cj0011c	YP	002343483.1	
consensus						

EQDLITVDYKGAVKSPGYLLDYKRYNDKLYLFCMLF...AKGLLEQADSKSLNLAQKVSDEALVYVPKGEAA	
.....MQIKT.KIVTFLFSLCLPTLPLLANAEETAPAAQ.....	33
.....MQIKT.KIVTFLFSLCLPTLPLLANAEETAPAAQ.....	33
.....MKWMLTLCLLILAPMSWAE.TKTKAD.....	25
.....MKT.L.FTSVVLGALVSSSFAEEKATXQTAQSVV.....TTQA.....	38
.....MKK.LSRYTFSLLFG.LFSATTFAEEKVTTSTEHTPV.....VMQQ.....	39
NKNEIMVDLKGAIVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESS	133
EQDLITVDVKGAVKSPGIYDLSVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA	137
.....MQYSMRFWKN...K.YFVLLIMLCGLVISPSVCAQSFQDNFQEWKVKQQM..YDQK.....	49
.....MQYSMRFWKN...K.YFLLIMLCGLVISPSVCAQSFQDNFQEWKAKQQM..YDQK.....	49
NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQKMFIPHKGQKNV	147
NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQKMFIPHKGQKNV	147
SNETIVIDIKGAVQHPGVYEM.RTGDRVS.....QAI...EKAGGTSEQADEAQVNLAELIQDGTVVYIPKKGEETA	125
.....MSIRHFFT...FFWAT.....LLTLFSMQI...VFAQGGFDQYDQAW.....KTQQKAHDTR	45
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
ATPYRFLIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
.....MKKLLFLF..FA.....	10
.....MKKLLFLF..FA.....	10
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logo

NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDLTNVKGIG	EATVR	95		
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKGI	GLKKAQAI	VDYREANGP	FTH	IDDLTNVKGIG	EATVR	95		
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGIEITVNVNSATAQEIATLLIGI	GEKKAQD	IVEYRNEHG	PFKTAADL	TKVKGIG	EATVR	87		
NTDB id 1362	HI 1008	AAC22669.1	EAQVAPAVVSDKLNINTATASEIQKSL	TGIGAKKA	EAI	VQYREKHGN	FXNAE	Q	104			
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNANV	VNINTATASEIQDKLVGIGAKKAQAI	IVEYREKNGK	FLN	VEQLTEVSGIG	KATLE	104		
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKAD	ITELQK.LTGIGQKKAQDI	IDFRMKN	GD	FKSIEDL	GKVS	209		
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKKINLNKASLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	AKTIE	207		
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKKVNLNKA	SLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	AKTIE	207	
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSIS	KEKKVNLNKA	SLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSIS	KEKKVNLNKA	SLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSIS	KEKKVNLNKA	SLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKKVNLNKA	SLEELKQ.VKGLGGKRAQDI	IDHREANGK	FKSVDEL	KKVSGIG	GKTIE	207	
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQIHLN	QANVNEFQQ.LKGIGEKKAQAI	IVEYRQKNGS	FKN	IDEIKNV	KGIG	PAIFE	128	
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQIHLN	QANVNEFQQ.LKGVGEKKAQAI	IVEYRQKNGS	FKN	IDEIKNV	KGIG	PAIFE	128	
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQ	QGAFQE	IDDLK	KKVGF	SKTFD	220	
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTKVN	LNTASVSELMS.VPGVGQAKANA	IVEYRNQ	QGAFQE	IDDLK	KKVGF	SKTFD	220	
NTDB id 105	BSU	25590	NP 390437.1	V....QGGGGGS..V..QSDGGKGALVN	INTATLEELQG.ISGVGPSKAE	EAI	IAYREENGR	FQ	TIEDIT	TKVSGIG	KSFE	196
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINSATAKELQQ.LHGVGEKKALA	IVEYRQYQ	GKFASV	DDLQ	KKV	GIGPKFIE	120	
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KS	VDDLI	KVKGIG	PAVLA	105		
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KS	VDDLI	KVKGIG	PAVLA	105		
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KS	VDDLI	KVKGIG	PAVLA	105		
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA.LPGIGPAKAKAIAEYRAQNGAF	KS	VDDLI	KVKGIG	PAVLA	105		
NTDB id 239481	CGZ78	RS00055	WP 002855574.1	LTAFLFGAVNINTATL	KELKS.LNGIGEAKAKAILEYRKE	.ANFTS	IDDLK	KKV	GIGDKLFE	70		
NTDB id 1242	Cj0011c	YP 002343483.1	LTAFLFGAVNINTATL	KELKS.LNGIGEAKAKAILEYRKE	.ANFTS	IDDLK	KKV	GIGDKLFE	70			
consensus				***! !** !*								

logo

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	KNRDCIVIE.....	113
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	KNKSRLIAL.....	136
NTDB id 1041	HON27	RS14740	WP 005124713.1	KNKSRLIAL.....	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	KLKDQASVGAPAPKGP	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGP	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGP	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGP	131
NTDB id 239481	CGZ78	RS00055	WP 002855574.1	KIKNDITVE.....	79
NTDB id 1242	Cj0011c	YP 002343483.1	KIKNDITIE.....	79	
consensus				*****	

 non conserved
 similar
 $\geq 50\%$ conserved