

Accession	Protein	Length	Score
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	.....	0
NTDB id 1150	A1552VC RS08580 WP 001166105.1	.....	0
NTDB id 1395	DSB67 RS04445 WP 010649155.1	.....	0
NTDB id 1362	HI 1008 AAC22669.1	.....	0
NTDB id 1382	A4U84 RS07375 WP 062924234.1	.....	0
NTDB id 595	KW2 RS08725 WP 021037687.1	MEKILDKLKEYWKIM.LLVVCALIAGGIFYIFTNSPKPAETLSVEN....LSSS..STKSSSVSKFNSSSSSEK	65
NTDB id 521	SMSK321 RS04960 WP 000443804.1	MESIIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261 RS04300 WP 000387351.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VVAVSKDSVSEKEVKKEEKEEPL	69
NTDB id 263	KZH43 RS04195 WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 222	SPD RS04535 WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 188	SPR RS04295 WP 000387330.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDLVSEKEVNKEEKEEPL	69
NTDB id 153	SP RS04730 WP 000387344.1	MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAPQTPVKETNLQAE...VAAVSKDSSTEKEVKKEEKEEPL	69
NTDB id 1069	ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1041	HON27 RS14740 WP 005124713.1	.....	0
NTDB id 36	MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLSKVEDVQVKDGDNSK	80
NTDB id 20	SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLIMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLSKLEDVQVKDGDNSK	80
NTDB id 105	BSU 25590 NP 390437.1	MNWLNQHKKAIILAASAAVFTAIMIFLATG....KNKE....PVKQAVPTE....TENTVVKQEANNDE	57
NTDB id 1014	ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 1127	NGFG RS10560 WP 003703428.1	MSRGG	5
NTDB id 1126	NGFG RS09375 WP 003703428.1	MSRGG	5
NTDB id 1125	NGFG RS07215 WP 003703428.1	MSRGG	5
NTDB id 1108	NGFG RS06525 WP 003703428.1	MSRGG	5
NTDB id 137636	RC22 RS08475 WP 002855574.1	.....	0
NTDB id 1242	Cj0011c YP 002343483.1	.....	0
consensus			

Accession	Protein	Sequence	Position
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	MQIKT.KIVTLFLSLCLPTLPLLANAEETAPAAQ.....	33
NTDB id 1150	A1552VC RS08580 WP 001166105.1	MQIKT.KIVTLFLSLCLPTLPLLANAEETAPAAQ.....	33
NTDB id 1395	DSB67 RS04445 WP 010649155.1	MKWMLTLCLLILAPMSWAE.TKTKAD.....	25
NTDB id 1362	HI 1008 AAC22669.1	MKT.L.FTSVVLGALVVSSFAEEKATXQTAQSVV.....TTQA.....	38
NTDB id 1382	A4U84 RS07375 WP 062924234.1	MKK.LSRYTFSLFLG.LFSATTFAEKVTTSSTEHTPV.....VMQQ.....	39
NTDB id 595	KW2 RS08725 WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSS	133
NTDB id 521	SMSK321 RS04960 WP 000443804.1	EQDLITVDVKGAVKSPGIYDLSVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEESA	137
NTDB id 493	SM12261 RS04300 WP 000387351.1	EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAA	137
NTDB id 263	KZH43 RS04195 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAV	137
NTDB id 222	SPD RS04535 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAV	137
NTDB id 188	SPR RS04295 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAV	137
NTDB id 153	SP RS04730 WP 000387344.1	EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAV	137
NTDB id 1069	ABD1 RS03060 WP 043960841.1	MQYSMRFWKN....K.YFVLIMLCLGVISPSVCAQSFDQNFQEWKVKQMM..YDQK.....	49
NTDB id 1041	HON27 RS14740 WP 005124713.1	MQYSMRFWKN....K.YFVLIMLCLGVISPSVCAQSFDQNFQEWKAKQMM..YDQK.....	49
NTDB id 36	MW RS08230 WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSGINLSEKLTQKMFIPHKGQKNV	147
NTDB id 20	SA RS08005 WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLDDADVSRINLSEKLTQKMFIPHKGQKNV	147
NTDB id 105	BSU 25590 NP 390437.1	SNETIVIDIKGAVQHPGVYEM.RTGDRVS.....QAI...EKAGGTSEQADEAQVNLAEILQDGTVVYIPKKGEETA	125
NTDB id 1014	ACIAD RS13855 WP 004924483.1	MSIRHFFT...FFWAT.....LLTLFSMQI...VFAAQGFDDQYDADW.....KTQQAHDTR	45
NTDB id 1127	NGFG RS10560 WP 003703428.1	ATPYRFLILIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1126	NGFG RS09375 WP 003703428.1	ATPYRFLILIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1125	NGFG RS07215 WP 003703428.1	ATPYRFLILIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 1108	NGFG RS06525 WP 003703428.1	ATPYRFLILIRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....	44
NTDB id 137636	RC22 RS08475 WP 002855574.1	MKKLLFLF..FA.....	10
NTDB id 1242	Cj0011c YP 002343483.1	MKKLLFLF..FA.....	10
consensus		*.....*	

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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	FXNAEQ	LLEVGIG	KATLE	104				
NTDB id 1382	A4U84	RS07375	WP 062924234.1	VAATQKVNAVNVNINTATASEIQDKL	VGIGAKKA	QAI	IVEYREKNG	KFLNVEQ	LTEVSGIG	KATLE	104			
NTDB id 595	KW2	RS08725	WP 021037687.1	SESTDSPTG...SSVSNQISTTSGPKVNINKA	DITELQK	LTGIGQKKAQ	DI	DFRMKNGD	FKSIEDL	GKVS	GFGDKTLE	209		
NTDB id 521	SMSK321	RS04960	WP 000443804.1	SQHTGSGAP.....SSTS	SKDKK	INLNKAS	LEELKQ	VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGAKTIE	207	
NTDB id 493	SM12261	RS04300	WP 000387351.1	SQQAGPGTA.....SSTS	KEKK	VNLNKAS	LEELKQ	VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGAKTIE	207	
NTDB id 263	KZH43	RS04195	WP 000387330.1	SQQTGLGTA.....SSISKEKK	VNLNKAS	LEELKQ	VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207		
NTDB id 222	SPD	RS04535	WP 000387330.1	SQQTGLGTA.....SSISKEKK	VNLNKAS	LEELKQ	VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207		
NTDB id 188	SPR	RS04295	WP 000387330.1	SQQTGLGTA.....SSISKEKK	VNLNKAS	LEELKQ	VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207		
NTDB id 153	SP	RS04730	WP 000387344.1	SQQTGSGTA.....SSTS	KEKK	VNLNKAS	LEELKQ	VKGLGGKRAQ	DI	IDHREANG	KFKSVDEL	KKVSGIGGKTIE	207	
NTDB id 1069	ABD1	RS03060	WP 043960841.1	LNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQAN	VNEFQQ	LKGIGEKKAQ	AIVEYRQ	KNGSFKN	IDEI	KNVKGIG	PAIFE	128	
NTDB id 1041	HON27	RS14740	WP 005124713.1	LNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQAN	VNEFQQ	LKGIGEKKAQ	AIVEYRQ	KNGSFKN	IDEI	KNVKGIG	PAIFE	128	
NTDB id 36	MW	RS08230	WP 001793467.1	EP....QIGVNS..VHVKNGNTNNTK	VNLNTAS	VSELMS	VPGVGQAKA	NAIVEYRN	QQGAFQE	IDDL	KKVKG	FGSKTFD	220	
NTDB id 20	SA	RS08005	WP 001802022.1	EP....QIEVNS..VHVKNGNTNNTK	VNLNTAS	VSELMS	VPGVGQAKA	NAIVEYRN	QQGAFQE	IDDL	KKVKG	FGSKTFD	220	
NTDB id 105	BSU 25590	NP 390437.1		V....QQGGGGS..V..QSDGGKGALVNINT	ATLEELQ	ISGVGPSKA	EAI	IAYREENG	RFTIED	ITKV	SGIGEK	SFE	196	
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	LNSSASHHSLSK..P..TQQSGTG	VKNINS	ATAKELQ	Q.LHGVGEKK	KALAI	IVEYRQ	QYGFAS	VDDL	QKVKGIG	PKFIE	120
NTDB id 1127	NGFG	RS10560	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA	LPGIGPAKAKA	IAEYRAQ	NGAFKSV	VDDL	IKVKGIG	PAVLA	105		
NTDB id 1126	NGFG	RS09375	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA	LPGIGPAKAKA	IAEYRAQ	NGAFKSV	VDDL	IKVKGIG	PAVLA	105		
NTDB id 1125	NGFG	RS07215	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA	LPGIGPAKAKA	IAEYRAQ	NGAFKSV	VDDL	IKVKGIG	PAVLA	105		
NTDB id 1108	NGFG	RS06525	WP 003703428.1	SCAFSLAAVNINAASQQE	LEA	LPGIGPAKAKA	IAEYRAQ	NGAFKSV	VDDL	IKVKGIG	PAVLA	105		
NTDB id 137636	RC22	RS08475	WP 002855574.1	LTAFLFGA	VNINTATL	KELKS	LNGIGEAKAKA	ILEYRKE	ANFTS	IDDL	KKVKGIG	DKLFE	70	
NTDB id 1242	Cj0011c	YP 002343483.1		LTAFLFGA	VNINTATL	KELKS	LNGIGEAKAKA	ILEYRKE	ANFTS	IDDL	KKVKGIG	DKLFE	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	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		KIKSSIIVK	205		
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	KNRDRLAI	128		
NTDB id 1127	NGFG	RS10560	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	KLKDQASVGAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 137636	RC22	RS08475	WP 002855574.1	KIKNDITVE	79		
NTDB id 1242	Cj0011c	YP 002343483.1		KIKNDITIE	79		
consensus				*****	*****		

 non conserved
 similar
 $\geq 50\%$ conserved