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		MEALLEKIKYKLIYICTGLGLLVGGFFLLKPAQTPVKETNLQAEVVAVSKDLVSEKESVSKKEEKEEPL	
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.LLVVICALIAGGIFYIFTNSPKPAETLSVEN....LSSS..STKSSVSKFNSSSSEK	65
NTDB id 521	SMSK321 RS04960 WP 000443804.1	.....MESIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAHTPVKETNLQAE...VVAISKDSSTEKDVKKEEKEEPV	69
NTDB id 493	SM12261 RS04300 WP 000387351.1	.....MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAQTPVKETNLQAE...VVAVSKDSVSEKEVNKKEEKEEPL	69
NTDB id 263	KZH43 RS04195 WP 000387330.1	.....MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAQTPVKETNLQAE...VVAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 222	SPD RS04535 WP 000387330.1	.....MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAQTPVKETNLQAE...VVAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 188	SPR RS04295 WP 000387330.1	.....MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAQTPVKETNLQAE...VVAVSKDLVSEKEVNKKEEKEEPL	69
NTDB id 153	SP RS04730 WP 000387344.1	.....MEAIIEKIKEYKIIV.ICTGLGLLVGGFFLLKPAQTPVKETNLQAE...VVAVSKDSSTEKEVNKKEEKEEPL	69
NTDB id 1069	ABD1 RS03060 WP 043960841.1	.....	0
NTDB id 1041	HON27 RS14740 WP 005124713.1	.....	0
NTDB id 105	BSU 25590 NP 390437.1	.....MNWLNQHKKAIILAASAAVFTAIMIFLATG...KNKE...PVKQAVPT...ETENTVVKQEANNDE	57
NTDB id 36	MW RS08230 WP 001793467.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLIGFIFWRQDDYTSRNFENKDNALKQSTSENSSLKVEDVQVKDGDNSK	80
NTDB id 20	SA RS08005 WP 001802022.1	MVLLYQFLLRYKDFLTQWKLYIISAVVLMVLIGFIFWRQDDYTSRNFENKDTALKQSTSENSSLKLEDVQVKDGDNSK	80
NTDB id 1014	ACIAD RS13855 WP 004924483.1	.....	0
NTDB id 198323	CJJRM3420 RS00050 WP 002853093.1	.....	0
NTDB id 1242	Cj0011c YP 002343483.1	.....	0
NTDB id 1127	NGFG RS10560 WP 003703428.1	.....	0
NTDB id 1126	NGFG RS09375 WP 003703428.1	.....	0
NTDB id 1125	NGFG RS07215 WP 003703428.1	0
NTDB id 1108	NGFG RS06525 WP 003703428.1	0
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		EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAVSQQTGLGTA..	
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	.....MQIKTK..IVTLFISLCLPT.....LPLLANAETAPAAQ.....	33
NTDB id 1150	A1552VC RS08580 WP 001166105.1	.....MQIKTK..IVTLFISLCLPT.....LPLLANAETAPAAQ.....	33
NTDB id 1395	DSB67 RS04445 WP 010649155.1	.....MKWMTLCLLI.....LAPMSWAE.TKTKAD.....	25
NTDB id 1362	HI 1008 AAC22669.1	.....MKTLL..FTSVVLCGAL.....VVSSSFAEAKATXQTAQSVVTT	36
NTDB id 1382	A4U84 RS07375 WP 062924234.1	.....MKKL..SRYTFSLLFG..L.....FSATTFAEKVTTSTEHTPVVM	37
NTDB id 595	KW2 RS08725 WP 021037687.1	NKNEIMVDLKGAVAKPNVYQISSDE.RLVDLIRQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSSSESTDSPGTG..	142
NTDB id 521	SMSK321 RS04960 WP 000443804.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEASASQHTGSGAP..	146
NTDB id 493	SM12261 RS04300 WP 000387351.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAASQAGPGTA..	146
NTDB id 263	KZH43 RS04195 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAVSQQTGLGTA..	146
NTDB id 222	SPD RS04535 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAVSQQTGLGTA..	146
NTDB id 188	SPR RS04295 WP 000387330.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAVSQQTGLGTA..	146
NTDB id 153	SP RS04730 WP 000387344.1	EQDLITVDVKGAVKSPGIYDLPVGS.RVNDVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAVSQQTGSGTA..	146
NTDB id 1069	ABD1 RS03060 WP 043960841.1	.....MQYSRFRWKNKYFVLLMLCLGV.....ISPSVCAQSFQNFQEWKVKQMYDQ	48
NTDB id 1041	HON27 RS14740 WP 005124713.1	.....MQYSRFRWKNKYFVLLMLCLGV.....ISPSVCAQSFQNFQEWKAKQMYDQ	48
NTDB id 105	BSU 25590 NP 390437.1	SNETIVVDIKGAVQHPGVYEMRTGD.RVSDATEKAGGTSEQADEAQVNLAELIQDGTVVYIPKKGEEETAV...Q	127
NTDB id 36	MW RS08230 WP 001793467.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLIDKAQLLEDADVSQINLSEKLTQKMFIFIPH.....K.GQKNVEP	149
NTDB id 20	SA RS08005 WP 001802022.1	NKGPVYVDVKGAVKHPNVYKMTSKD.RVVDLIDKAQLLDDADVSRINLSEKLTQKMFIFIPH.....K.GQKNVEP	149
NTDB id 1014	ACIAD RS13855 WP 004924483.1	.....MSIR.HFF...T...FFWAT...LL..TLFSMQIVFAQGFQIQYDAWKTQKKAHDT	44
NTDB id 198323	CJJRM3420 RS00050 WP 002853093.1	.....MKKLLFLF..F.....	9
NTDB id 1242	Cj0011c YP 002343483.1	.....MKKLLFLF..F.....	9
NTDB id 1127	NGFG RS10560 WP 003703428.1	.....MSRGGG...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF.CML.....	43
NTDB id 1126	NGFG RS09375 WP 003703428.1	.....MSRGGG...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF.CML.....	43
NTDB id 1125	NGFG RS07215 WP 003703428.1	.....MSRGGG...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF.CML.....	43
NTDB id 1108	NGFG RS06525 WP 003703428.1MSRGGG...TPYRFLLR.HIV...ARCG.LLFAT...LKGKTMKKMFVLF.CML.....	43
consensus		* ** * * * * * * * * * * * *	

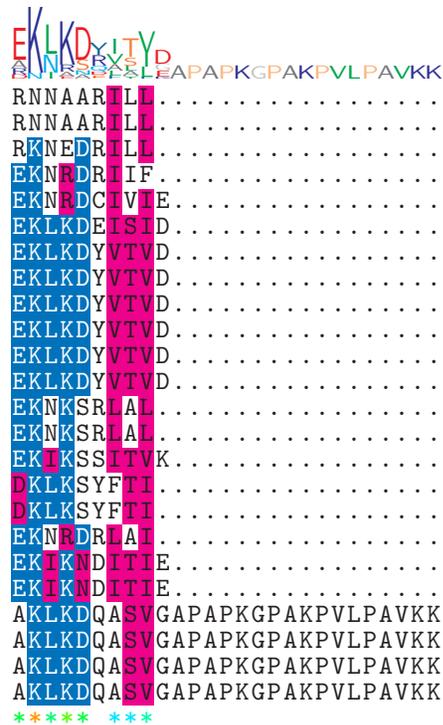
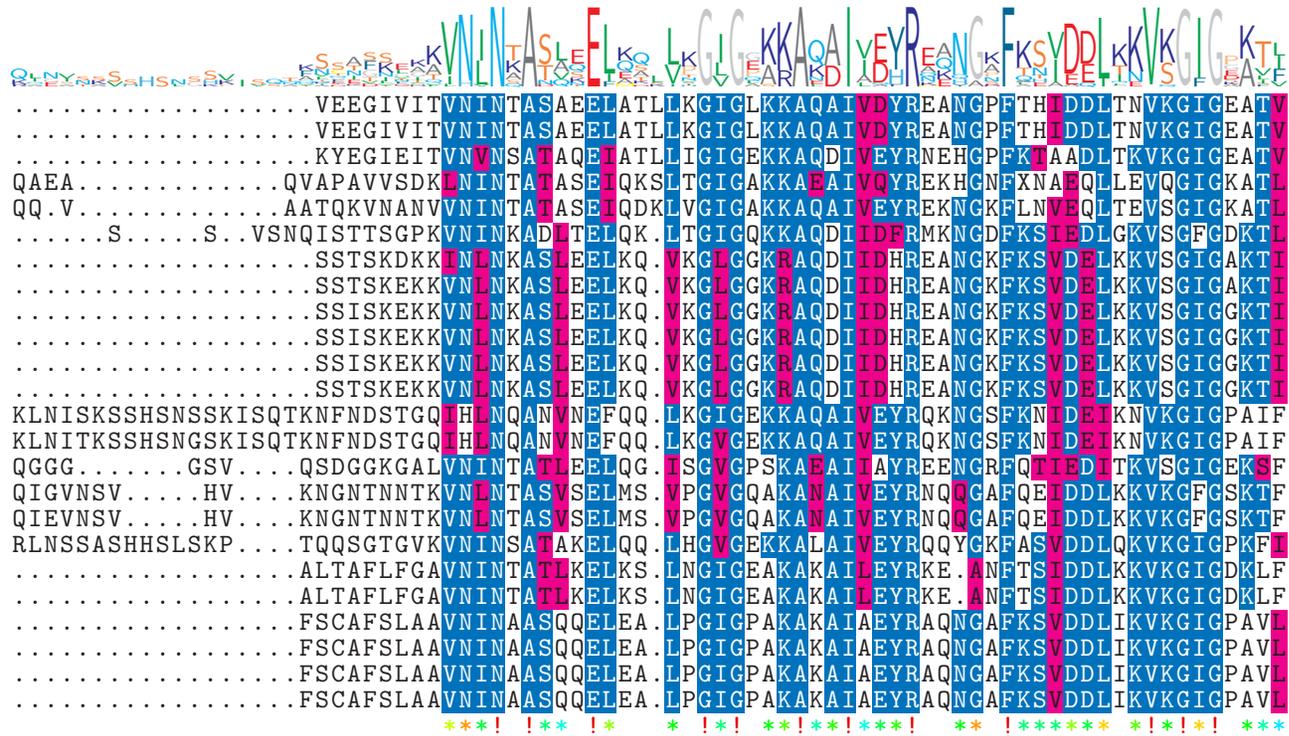
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NTDB id 1159	ABDM36	RS04765	WP 001166105.1	VEEGIVITVNINTASAEELATLLKIGIGLKKAAI	VDYREANGP	FTHIDDLT	NVKGIGEATV	94			
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	VEEGIVITVNINTASAEELATLLKIGIGLKKAAI	VDYREANGP	FTHIDDLT	NVKGIGEATV	94			
NTDB id 1395	DSB67	RS04445	WP 010649155.1	KYEGEITVNVNSATAQEIATLLIGIGEKKAAQDI	VEYRNEHGP	FKTAADLT	KVKGIGEATV	86			
NTDB id 1362	HI 1008	AAC22669.1		QAEA.....QVAPAVVSDKLNINTATASEIQKSLT	GIGAKKAE	AVQYREKHGN	FNAEQLLLEVQ	GIGKATL	103		
NTDB id 1382	A4U84	RS07375	WP 062924234.1	QQ.V.....AATQVNVANV	VNINTATASEIQDKLV	GIGAKKAAQAI	VEYREKNGK	FLNVEQLTEV	SGIGKATL	103	
NTDB id 595	KW2	RS08725	WP 021037687.1	.....S.....S..VSNQISTTSGPK	VNINKADITELQK.	LTGIGQKKAQDI	IDFRMKN	GDFKSIDDLG	KVSGFGDKTL	208
NTDB id 521	SMSK321	RS04960	WP 000443804.1	.....SSTS	KDKKINLNKASLEELKQ.	VKGLGGKRAQDI	IDHREANGK	FKSVDLKKV	SGIGAKTI	206
NTDB id 493	SM12261	RS04300	WP 000387351.1	.....SSTS	KEKKVNLNKASLEELKQ.	VKGLGGKRAQDI	IDHREANGK	FKSVDLKKV	SGIGAKTI	206
NTDB id 263	KZH43	RS04195	WP 000387330.1	.....SSIS	KEKKVNLNKASLEELKQ.	VKGLGGKRAQDI	IDHREANGK	FKSVDLKKV	SGIGGKTI	206
NTDB id 222	SPD	RS04535	WP 000387330.1	.....SSIS	KEKKVNLNKASLEELKQ.	VKGLGGKRAQDI	IDHREANGK	FKSVDLKKV	SGIGGKTI	206
NTDB id 188	SPR	RS04295	WP 000387330.1	.....SSIS	KEKKVNLNKASLEELKQ.	VKGLGGKRAQDI	IDHREANGK	FKSVDLKKV	SGIGGKTI	206
NTDB id 153	SP	RS04730	WP 000387344.1	.....SSTS	KEKKVNLNKASLEELKQ.	VKGLGGKRAQDI	IDHREANGK	FKSVDLKKV	SGIGGKTI	206
NTDB id 1069	ABD1	RS03060	WP 043960841.1	KLNISKSSHSNSSKISQTKNFNDSTGQ	IHLNQANVNEFQQ.	LKIGIGEKKAAQAI	VEYRQKNGS	FKNIDEIK	NVKGIGPAIF	127	
NTDB id 1041	HON27	RS14740	WP 005124713.1	KLNITKSSHSNGSKISQTKNFNDSTGQ	IHLNQANVNEFQQ.	LKIGIGEKKAAQAI	VEYRQKNGS	FKNIDEIK	NVKGIGPAIF	127	
NTDB id 105	BSU	25590	NP 390437.1	QGGG.....GSV...QSDGGK	GVNINTATLEELQG.	ISGVGPSKAE	AIAYREENGR	FQTI	IEDITKVSGIGKSF	195	
NTDB id 36	MW	RS08230	WP 001793467.1	QIGVNSV....HV...KNGT	NNTKVNINTASVSELM.	VPGVGGQAKANA	IVEYRNQQG	AFQEI	DDLKVKGFGSKTF	219	
NTDB id 20	SA	RS08005	WP 001802022.1	QIEVNSV....HV...KNGT	NNTKVNINTASVSELM.	VPGVGGQAKANA	IVEYRNQQG	AFQEI	DDLKVKGFGSKTF	219	
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	RLNSSASHHSLSKP...TQQSGT	GVNINSA	TAKELQS.	LHGVGEKKALAI	VEYRQQY	GKFASVDDLQ	KVKGIGPKFI	119
NTDB id 198323	CJJRM3420	RS00050	WP 002853093.1ALTAFLFGA	VNINTATL	KELQS.	LNGIGEAKAKAI	LEYRKE.	ANFTSIDDLK	VKGIGDKLF	69
NTDB id 1242	Cj0011c	YP 002343483.1	ALTAFLFGA	VNINTATL	KELKS.	LNGIGEAKAKAI	LEYRKE.	ANFTSIDDLK	VKGIGDKLF	69
NTDB id 1127	NGFG	RS10560	WP 003703428.1FSCAFSLAA	VNINAASQQE	LEA.	LPGIGPAKAKAI	AEYRAQ	NGAFKSV	DDLIKVKGIGPAVL	104
NTDB id 1126	NGFG	RS09375	WP 003703428.1FSCAFSLAA	VNINAASQQE	LEA.	LPGIGPAKAKAI	AEYRAQ	NGAFKSV	DDLIKVKGIGPAVL	104
NTDB id 1125	NGFG	RS07215	WP 003703428.1FSCAFSLAA	VNINAASQQE	LEA.	LPGIGPAKAKAI	AEYRAQ	NGAFKSV	DDLIKVKGIGPAVL	104
NTDB id 1108	NGFG	RS06525	WP 003703428.1FSCAFSLAA	VNINAASQQE	LEA.	LPGIGPAKAKAI	AEYRAQ	NGAFKSV	DDLIKVKGIGPAVL	104

logo

NTDB id 1159	ABDM36	RS04765	WP 001166105.1	RNNAARILL	103			
NTDB id 1150	A1552VC	RS08580	WP 001166105.1	RNNAARILL	103			
NTDB id 1395	DSB67	RS04445	WP 010649155.1	RKNEDRILL	95			
NTDB id 1362	HI 1008	AAC22669.1		EKNRDRIIF	112			
NTDB id 1382	A4U84	RS07375	WP 062924234.1	EKNRDCIVTE	113			
NTDB id 595	KW2	RS08725	WP 021037687.1	EKLKDEISID	218			
NTDB id 521	SMSK321	RS04960	WP 000443804.1	EKLKDYVTVD	216			
NTDB id 493	SM12261	RS04300	WP 000387351.1	EKLKDYVTVD	216			
NTDB id 263	KZH43	RS04195	WP 000387330.1	EKLKDYVTVD	216			
NTDB id 222	SPD	RS04535	WP 000387330.1	EKLKDYVTVD	216			
NTDB id 188	SPR	RS04295	WP 000387330.1	EKLKDYVTVD	216			
NTDB id 153	SP	RS04730	WP 000387344.1	EKLKDYVTVD	216			
NTDB id 1069	ABD1	RS03060	WP 043960841.1	EKNKSRLLAL	136			
NTDB id 1041	HON27	RS14740	WP 005124713.1	EKNKSRLLAL	136			
NTDB id 105	BSU	25590	NP 390437.1	EKKSSITVK	205			
NTDB id 36	MW	RS08230	WP 001793467.1	DKLKSIFTI	228			
NTDB id 20	SA	RS08005	WP 001802022.1	DKLKSIFTI	228			
NTDB id 1014	ACIAD	RS13855	WP 004924483.1	EKNRDRLAI	128			
NTDB id 198323	CJJRM3420	RS00050	WP 002853093.1	EKNRNDITIE	79			
NTDB id 1242	Cj0011c	YP 002343483.1		EKNRNDITIE	79			
NTDB id 1127	NGFG	RS10560	WP 003703428.1	AKLKDQASV	GAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1126	NGFG	RS09375	WP 003703428.1	AKLKDQASV	GAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1125	NGFG	RS07215	WP 003703428.1	AKLKDQASV	GAPAPKGP	PAKPVLP	PAVKK	131
NTDB id 1108	NGFG	RS06525	WP 003703428.1	AKLKDQASV	GAPAPKGP	PAKPVLP	PAVKK	131

consensus



 non conserved
 similar
 $\geq 50\%$ conserved