

Accession	Protein	Length	Score	E-value	Identity	Positives	Gaps
NTDB id 1159	ABDM36 RS04765 WP 001166105.1	27	11.0	1.0e-05	100%	100%	0
NTDB id 1150	A1552VC RS08580 WP 001166105.1	27	11.0	1.0e-05	100%	100%	0
NTDB id 1395	DSB67 RS04445 WP 010649155.1	19	11.0	1.0e-05	100%	100%	0
NTDB id 1294	VP RS04495 WP 021449594.1	19	11.0	1.0e-05	100%	100%	0
NTDB id 1362	HI 1008 AAC22669.1	23	11.0	1.0e-05	100%	100%	0
NTDB id 1382	A4U84 RS07375 WP 062924234.1	24	11.0	1.0e-05	100%	100%	0
NTDB id 595	KW2 RS08725 WP 021037687.1	54	11.0	1.0e-05	100%	100%	0
NTDB id 521	SMSK321 RS04960 WP 000443804.1	58	11.0	1.0e-05	100%	100%	0
NTDB id 493	SM12261 RS04300 WP 000387351.1	58	11.0	1.0e-05	100%	100%	0
NTDB id 153	SP RS04730 WP 000387344.1	58	11.0	1.0e-05	100%	100%	0
NTDB id 263	KZH43 RS04195 WP 000387330.1	58	11.0	1.0e-05	100%	100%	0
NTDB id 222	SPD RS04535 WP 000387330.1	58	11.0	1.0e-05	100%	100%	0
NTDB id 188	SPR RS04295 WP 000387330.1	58	11.0	1.0e-05	100%	100%	0
NTDB id 36	MW RS08230 WP 001793467.1	69	11.0	1.0e-05	100%	100%	0
NTDB id 20	SA RS08005 WP 001802022.1	69	11.0	1.0e-05	100%	100%	0
NTDB id 105	BSU 25590 NP 390437.1	46	11.0	1.0e-05	100%	100%	0
NTDB id 1069	ABD1 RS03060 WP 043960841.1	20	11.0	1.0e-05	100%	100%	0
NTDB id 1014	ACIAD RS13855 WP 004924483.1	15	11.0	1.0e-05	100%	100%	0
NTDB id 105641	R8569 RS00055 WP 002866798.1	0	11.0	1.0e-05	100%	100%	0
NTDB id 1242	Cj0011c YP 002343483.1	0	11.0	1.0e-05	100%	100%	0
NTDB id 1127	NGFG RS10560 WP 003703428.1	31	11.0	1.0e-05	100%	100%	0
NTDB id 1126	NGFG RS09375 WP 003703428.1	31	11.0	1.0e-05	100%	100%	0
NTDB id 1125	NGFG RS07215 WP 003703428.1	31	11.0	1.0e-05	100%	100%	0
NTDB id 1108	NGFG RS06525 WP 003703428.1	31	11.0	1.0e-05	100%	100%	0
consensus							

NTDB	id	Accession	Sequence	Consensus	Score
NTDB	id 1159	ABDM36 RS04765 WP 001166105.1	TAP.....AA.....Q.....		33
NTDB	id 1150	A1552VC RS08580 WP 001166105.1	TAP.....AA.....Q.....		33
NTDB	id 1395	DSB67 RS04445 WP 010649155.1	TKT.....KA.....D.....		25
NTDB	id 1294	VP RS04495 WP 021449594.1	DT.....KA.....D.....		24
NTDB	id 1362	HI 1008 AAC22669.1	KAT.....XQ.....TAQSVVT		35
NTDB	id 1382	A4U84 RS07375 WP 062924234.1	KVT.....TS.....TEHTPVV		36
NTDB	id 595	KW2 RS08725 WP 021037687.1	VSKFNSSSSSEKNKNEIMVDLKGAVAKPNVYQISSDERLVDLIRQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESSSS		134
NTDB	id 521	SMSK321 RS04960 WP 000443804.1	DVKKEEKEEPVEQDLITVDVKGAVKSPGIYDLSVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAS		138
NTDB	id 493	SM12261 RS04300 WP 000387351.1	EVKKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAS		138
NTDB	id 153	SP RS04730 WP 000387344.1	EVKKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVS		138
NTDB	id 263	KZH43 RS04195 WP 000387330.1	EVNKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVS		138
NTDB	id 222	SPD RS04535 WP 000387330.1	EVNKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVS		138
NTDB	id 188	SPR RS04295 WP 000387330.1	EVNKEEKEEPLEQDLITVDVKGAVKSPGIYDLPVGSRVNDVAVQKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEEAVS		138
NTDB	id 36	MW RS08230 WP 001793467.1	DVQVKDGDNSKNKGPVYVDVKGAVKHPNVYKMTSKDRVVDLLDKAQLLEDADVQSINLSEKLTQDKMIFIPHKGQKNVE		148
NTDB	id 20	SA RS08005 WP 001802022.1	DVQVKDGDNSKNKGPVYVDVKGAVKHPNVYKMTSKDRVVDLLDKAQLLDDADVSRINLSEKLTQDKMIFIPHKGQKNVE		148
NTDB	id 105	BSU 25590 NP 390437.1	TVVKQEANNDESNETIVIDIKGAHQHPGVYEMRTGDRVSQAIEKAGGTSEQADEAQVNLAIEILQDGTVVYIPKKGEETAV		126
NTDB	id 1069	ABD1 RS03060 WP 043960841.1	G.VISPSVCAQSFQDNFQ.E...WKVKQQMYDQKLNISK.....SSHs...		58
NTDB	id 1014	ACIAD RS13855 WP 004924483.1	TLFSMQIVFAQGFDDQYD.A...WKTQQKAHDTRLNSSA.....SSHs...		54
NTDB	id 105641	R8569 RS00055 WP 002866798.1	MKKLLFLF..F.....		9
NTDB	id 1242	Cj0011c YP 002343483.1	MKKLLFLF..F.....		9
NTDB	id 1127	NGFG RS10560 WP 003703428.1	TMKKMFVLFcML.....		43
NTDB	id 1126	NGFG RS09375 WP 003703428.1	TMKKMFVLFcML.....		43
NTDB	id 1125	NGFG RS07215 WP 003703428.1	TMKKMFVLFcML.....		43
NTDB	id 1108	NGFG RS06525 WP 003703428.1	TMKKMFVLFcML.....		43
consensus			* ** *	* *	

NTDB	id	1159	ABDM36	RS04765	WP	001166105.1	VEEGIVIT	VNINTASAEELATL	LKGIGL	KKAQAI	VDYREANG	PFTTH	IDDITN	VKGIGEAT	VRNNA	99							
NTDB	id	1150	A1552VC	RS08580	WP	001166105.1	VEEGIVIT	VNINTASAEELATL	LKGIGL	KKAQAI	VDYREANG	PFTTH	IDDITN	VKGIGEAT	VRNNA	99							
NTDB	id	1395	DSB67	RS04445	WP	010649155.1	KYEGIEIT	VNNSATAQEIT	ATLLIGIGE	KKQAD	IVEYRNEH	GPFKT	AAADLT	VKGIGEAT	VRKNE	91							
NTDB	id	1294	VP	RS04495	WP	021449594.1	KYEGIEIT	VNINTASAEELATL	LKGIGE	KKQAI	SDYRTEHG	PFKTA	ADLTN	VKGIGEAT	IKKNE	90							
NTDB	id	1362	HI	1008	AAC22669.1		TQAEAAQV.....	APAVSDK	LNINTATASE	IQKSL	LTGIGAKKA	EAI	VQYREKH	GNFXNA	EQLLE	VQGGIGKATLEKN	RD	108					
NTDB	id	1382	A4U84	RS07375	WP	062924234.1	MQQ.VAA.....	TQKVNAV	VNINTATASE	IQDKL	LVGIGAKKA	QAI	VEYREK	NGKFLN	VEQLTE	VS	GIGKATLEKN	RD	108				
NTDB	id	595	KW2	RS08725	WP	021037687.1	ESTDSPTGSSVSNQ	ISTTSGPK	VNINKAD	TELQK	LTGIGQKKA	QDI	IDFRMKN	GD	FKSI	EDL	GKVS	GFGDKTLEKL	KD	213			
NTDB	id	521	SMSK321	RS04960	WP	000443804.1	QHTGSGAP.....	SSTS	KDKK	INLNKAS	LEELKQ	VKGLGGK	RQADI	IDHREANG	KFKS	VDEL	KKVS	GIGAKTIEKL	KD	211			
NTDB	id	493	SM12261	RS04300	WP	000387351.1	QQAGPGTA.....	SSTS	KEKK	VNLN	KASLEELKQ	VKGLGGK	RQADI	IDHREANG	KFKS	VDEL	KKVS	GIGAKTIEKL	KD	211			
NTDB	id	153	SP	RS04730	WP	000387344.1	QQTGSGTA.....	SSTS	KEKK	VNLN	KASLEELKQ	VKGLGGK	RQADI	IDHREANG	KFKS	VDEL	KKVS	GIGGKTIEKL	KD	211			
NTDB	id	263	KZH43	RS04195	WP	000387330.1	QQTGLGTA.....	SSIS	KEKK	VNLN	KASLEELKQ	VKGLGGK	RQADI	IDHREANG	KFKS	VDEL	KKVS	GIGGKTIEKL	KD	211			
NTDB	id	222	SPD	RS04535	WP	000387330.1	QQTGLGTA.....	SSIS	KEKK	VNLN	KASLEELKQ	VKGLGGK	RQADI	IDHREANG	KFKS	VDEL	KKVS	GIGGKTIEKL	KD	211			
NTDB	id	188	SPR	RS04295	WP	000387330.1	QQTGLGTA.....	SSIS	KEKK	VNLN	KASLEELKQ	VKGLGGK	RQADI	IDHREANG	KFKS	VDEL	KKVS	GIGGKTIEKL	KD	211			
NTDB	id	36	MA	RS08230	WP	001793467.1	PQIGVNS...	VHVKN	GNNTN	NTK	VNLNTASV	SELMS	VPGVG	QAKANA	IVEYRN	QGA	FQEI	DDL	KKVSG	SKTF	DKLS	224	
NTDB	id	20	SA	RS08005	WP	001802022.1	PQIEVNS...	VHVKN	GNNTN	NTK	VNLNTASV	SELMS	VPGVG	QAKANA	IVEYRN	QGA	FQEI	DDL	KKVSG	SKTF	DKLS	224	
NTDB	id	105	BSU	25590	NP	390437.1	QQGGGGS...	VQ..SD	GKGAL	VNINTAT	LEELQG	ISGVGPS	KAEAI	IAYREENG	R	FQTI	EDIT	KVSGIGE	K	SFEK	IKS	200	
NTDB	id	1069	ABD1	RS03060	WP	043960841.1	NSSKISQ...	TK..NF	NDSTG	QTHLN	QANVNE	FQQ	LKGIGE	KKQAI	IVEYRQ	KNGSF	KNIDE	IKNVKG	GIPAF	EKN	KS	132	
NTDB	id	1014	ACIAD	RS13855	WP	004924483.1	LSKPTQQ.....	SGTG	VKN	NSATAK	ELQQ	LHG	VGEKKA	LA	IVEYRQ	QYGF	ASF	VDDL	QKVG	GIGP	KFTEKN	RD	124
NTDB	id	105641	R18569	RS00055	WP	002866798.1	ALT.....	AFLFGA	VNINTAT	LKELKS	LNGIGE	AKAK	SILEYRKE	ANFTS	IDD	L	KVKGIG	DKLFEK	IKN			74	
NTDB	id	1242	Cj0011c	YP	002343483.1		ALT.....	AFLFGA	VNINTAT	LKELKS	LNGIGE	AKAK	SILEYRKE	ANFTS	IDD	L	KVKGIG	DKLFEK	IKN			74	
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	FSC.....	AFSLAA	VNINAAS	QQELEA	LPGIG	PAKAKA	IAEYRA	QNGAF	KS	VDDL	I	KVKGIG	PAV	LAKL	KD	109	
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	FSC.....	AFSLAA	VNINAAS	QQELEA	LPGIG	PAKAKA	IAEYRA	QNGAF	KS	VDDL	I	KVKGIG	PAV	LAKL	KD	109	
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	FSC.....	AFSLAA	VNINAAS	QQELEA	LPGIG	PAKAKA	IAEYRA	QNGAF	KS	VDDL	I	KVKGIG	PAV	LAKL	KD	109	
NTDB	id	1108																					

NTDB	id	1159	ABDM36	RS04765	WP	001166105.1	RILL.....	103
NTDB	id	1150	A1552VC	RS08580	WP	001166105.1	RILL.....	103
NTDB	id	1395	DSB67	RS04445	WP	010649155.1	RILL.....	95
NTDB	id	1294	VP	RS04495	WP	021449594.1	RILL.....	94
NTDB	id	1362	HI	1008	AAC22669.1	RIIF.....	112	
NTDB	id	1382	A4U84	RS07375	WP	062924234.1	CIVIE.....	113
NTDB	id	595	KW2	RS08725	WP	021037687.1	EISID.....	218
NTDB	id	521	SMSK321	RS04960	WP	000443804.1	YVTVD.....	216
NTDB	id	493	SM12261	RS04300	WP	000387351.1	YVTVD.....	216
NTDB	id	153	SP	RS04730	WP	000387344.1	YVTVD.....	216
NTDB	id	263	KZH43	RS04195	WP	000387330.1	YVTVD.....	216
NTDB	id	222	SPD	RS04535	WP	000387330.1	YVTVD.....	216
NTDB	id	188	SPR	RS04295	WP	000387330.1	YVTVD.....	216
NTDB	id	36	MW	RS08230	WP	001793467.1	YFTI.....	228
NTDB	id	20	SA	RS08005	WP	001802022.1	YFTI.....	228
NTDB	id	105	BSU	25590	NP	390437.1	SITVK.....	205
NTDB	id	1069	ABD1	RS03060	WP	043960841.1	RLAL.....	136
NTDB	id	1014	ACIAD	RS13855	WP	004924483.1	RLAI.....	128
NTDB	id	105641	R8569	RS00055	WP	002866798.1	DITVE.....	79
NTDB	id	1242	Cj0011c	YP	002343483.1	DITIE.....	79	
NTDB	id	1127	NGFG	RS10560	WP	003703428.1	QASVGAPAKGPAKPVLPAVKK	131
NTDB	id	1126	NGFG	RS09375	WP	003703428.1	QASVGAPAKGPAKPVLPAVKK	131
NTDB	id	1125	NGFG	RS07215	WP	003703428.1	QASVGAPAKGPAKPVLPAVKK	131
NTDB	id	1108	NGFG	RS06525	WP	003703428.1	QASVGAPAKGPAKPVLPAVKK	131
consensus							****	

 non conserved
 similar
 $\geq 50\%$ conserved