

logo

NTDB id 1251 GC085 RS07725 WP 011946523.1	MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEEKISLLQYIVKNKILSAEQIALTAAGNFQVPMLDINCIDVGTI	80
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	0
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	0
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	0
NTDB id 78871 EC1303 RS15985 WP 001295381.1	.....	0
NTDB id 1448 BW25113 RS15320 WP 001326494.1	.....	0
NTDB id 1307 DR RS10055 WP 010888596.1	.....	0
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	0
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	0
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	0
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	0
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	0
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	0
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	0
NTDB id 1194 PA0395 NP 249086.1	.....	0
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	0
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	0
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	0
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	0
consensus		

logo

NTDB id 1251 GC085 RS07725 WP 011946523.1	PVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE	160
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	0
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	0
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	0
NTDB id 78871 EC1303 RS15985 WP 001295381.1	.....	0
NTDB id 1448 BW25113 RS15320 WP 001326494.1	.....	0
NTDB id 1307 DR RS10055 WP 010888596.1	.....	0
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	0
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	0
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	0
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	0
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	0
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	0
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	0
NTDB id 1194 PA0395 NP 249086.1	.....	0
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	0
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	0
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	0
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	0
consensus		

logo

NTDB id 1251 GC085 RS07725 WP 011946523.1	DSGDLEGLEISADDEDQDIDTATSVTDDAPIVKFV	240
NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITV...GAPILYRV	44
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITA...GVPPSMKVN	45
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMMAKHKASDLFITA...GVEPSLKI	45
NTDB id 78871 EC1303 RS15985 WP 001295381.1	MNMEEIVALSVKHNVSDLHLCS...AWPARWRIR	42
NTDB id 1448 BW25113 RS15320 WP 001326494.1	MNMEEIVALSVKHNVSDLHLCS...AWPARWRIR	42
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILAA...GLPPQF	49
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSS...GISPMIRVH	45
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSS...GISPMIRVH	45
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSA...GVPPMVRID	45
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSA...GVPPMVRID	45
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNKSSDLHISA...GMPPMIRVD	45
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNKSSDLHISA...GMPPMIRVD	45
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFAKQKASDLHLSS...GLPPMIRVDG	45
NTDB id 1194 PA0395 NP 249086.1	MDITELLAFAKQKASDLHLSA...GLPPMIRVDG	45
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRASDLHLSA...GIPPMIRVDG	45
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNKASDLHLSA...GMPPMIRVDG	45
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNKASDLHLSA...GMPPMIRVDG	45
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFAVKNKASDLHLSA...GMPPMIRVDG	45
consensus	*** ***** *!***** *****!***** ***	

logo

NTDB id 1251 GC085 RS07725 WP 011946523.1	SRITARIKVMSNLDISERRIPQDGGFKMKISKSR.AIDFRVSTCPTSAGEKVVMRVLD	319
NTDB id 1177 A1552VC RS01165 WP 000422572.1	DVTALIHAMMDARQAE..FKQTRFANFAVVRD..SGRFRVSAFFQRELPGAVIRRIET	114
NTDB id 1203 PSJM300 01605 AFN76401.1	MTRETVHGVNMNEQQRRE..FTENHECNFAISARG.TGRFRVSAFYQRNLAGMVLRR	116
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MIAQLIDSITTQKQRQE..FIETHECNFAILNREKNERFRVSAFQQRDMPGMVIRRIET	117
NTDB id 78871 EC1303 RS15985 WP 001295381.1	DVEELLREWLDDDQRAI..LLENGQLDFAVSLAE.NQRLRGSFAFAQRQGISLALRL	113
NTDB id 1448 BW25113 RS15320 WP 001326494.1	DVEELLREWLDDDQRAI..LLENGQLDFAVSLAE.NQRLRGSFAFAQRHGISLALRL	113
NTDB id 1307 DR RS10055 WP 010888596.1	DTRKLMYSMMNERQQRRI..FEEKRELDDFSALGD..KARFRVNAFMQRGNVGGVMR	120
NTDB id 1086 NMV RS00245 WP 002218487.1	EVGNMVTSMNDHQRKI..YQQNLEVDFSFEIPN.VARFRVNAFNIGRGPAAVFRTIP	116
NTDB id 1116 NGFG RS10615 WP 003690200.1	EVGNMVTSMNDHQRKI..YQQNLEVDFSFEIPN.VARFRVNAFNIGRGPAAVFRTIP	116
NTDB id 1185 GTF74 RS11940 WP 000350195.1	DVHRLIFEIMNDAQRSE..YEEKLEVDFSFEIPN.VGRFRVNAFHQARGCSAVFRTIP	116
NTDB id 1176 A1552VC RS01160 WP 000350195.1	DVHRLIFEIMNDAQRSE..YEEKLEVDFSFEIPN.VGRFRVNAFHQARGCSAVFRTIP	116
NTDB id 1283 ACE17W RS02630 WP 010947729.1	DVIKIIYDIMNDRQRKE..YEEFFETDFSFEIPN.LARFRVNAFNQSRGAAVFRTIP	116
NTDB id 1259 GC085 RS10305 WP 010947729.1	DVIKIIYDIMNDRQRKE..YEEFFETDFSFEIPN.LARFRVNAFNQSRGAAVFRTIP	116
NTDB id 1202 PSJM300 01600 AFN76400.1	QVHALIYDIMNDKQRKD..FEEFLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIP	116
NTDB id 1194 PA0395 NP 249086.1	QVHALIYDIMNDKQRKD..FEEFLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIP	116
NTDB id 1020 ACIAD RS04210 WP 011182164.1	EVHNLIIYDIMNDKQRKD..YEEKLETDFSFEVPG.LARFRVNVFNQNRGAGAVFRTIP	116
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	DVHRLVYDIMNDKQRKD..YEEKLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIP	116
NTDB id 1060 ABD1 RS04380 WP 000355489.1	DVHRLVYDIMNDKQRKD..YEEKLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIP	116
NTDB id 1040 HON27 RS13360 WP 000355489.1	DVHRLVYDIMNDKQRKD..YEEKLETDFSFEVPG.VARFRVNAFNQNRGAGAVFRTIP	116
consensus	** ***** **** * ***** *****!***** ** *****!***** ** ***** *	

[illegible]

NTDB	id	1251	GC085	RS07725	WP	011946523.1	PDIIIMVGEIRDLETAETIAIKAAQTGHLVLS	TLHTNSAAETLNRLVNMGIPT.....FN	IASSVTLIIAQRRLAR	KLCNQC	469																																								
NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	PDMILIGEIRSR	ETMEYAMTFAETGHL	CLMATLHANNANQALERILHLVPKE	EQREQFLLDLSLNLKG	VI	AAQQLLR	.....	268																																					
NTDB	id	1203	PSJM300	01605	AFN	76401.1	PDVILIGEVR	TR	ETMDHVAFAETGHL	CLCLATLHANNANQALDR	II	NFFPADR	QQVWMDLSLNLKA	IT	VAQQV	QLVP	.....	270																																	
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	PDVILIGEVR	ETMDHVAFAETGHLV	FATLHANNANQAL	TLRI	IHF	FDADR	HQ	IFMDLSLNLKA	VIS	QQLIP	.....	271																																	
NTDB	id	78871	EC1303	RS15985	WP	001295381.1	PDVILLGEL	RDS	ETIRLALTA	AETGHLV	LATLHTRGAAQ	AV	RLVDS	SFPAQ	EKDPVR	NQLAG	SLRAV	LS	SQK	LEV	.....	267																													
NTDB	id	1448	BW25113	RS15320	WP	001326494.1	PDVILLGEL	RDS	ETIRLALTA	AETGHLV	LATLHTRGAAQ	AV	RLVDS	SFPAQ	EKDPVR	NQLAG	SLRAV	LS	SQK	LEV	.....	267																													
NTDB	id	1307	DR	RS10055	WP	01088596.1	PDVILVGEM	R	DYETIKAAV	TAAETGHLV	MGTLHTNSAPES	IDR	IV	DV	FP	EE	QQEQ	IRV	QLANN	L	VAV	MT	QQLLP	.....	274																										
NTDB	id	1086	NMV	RS00245	WP	002218487.1	PDVILVGEM	R	DPETIG	LALTA	AETGHLV	FGTLHT	TGA	AKT	V	DRI	DV	FP	AGE	K	EM	V	MS	L	SE	SL	TA	VIS	QN	LLK	.....	270																			
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	PDVILVGEM	R	DPETIG	LALTA	AETGHLV	FGTLHT	TGA	AKT	V	DRI	DV	FP	AGE	K	EM	V	MS	L	SE	SL	TA	VIS	QN	LLK	.....	270																			
NTDB	id	1185	GTF74	RS11940	WP	000350195.1	PDVILVGEL	R	DQETIS	LALTA	AETGHLV	FGTLHT	SSA	AKT	I	DRI	DV	FP	GS	D	K	D	M	V	R	S	L	S	E	S	L	R	A	V	I	A	Q	K	L	L	K		270								
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	PDVILVGEL	R	DQETIS	LALTA	AETGHLV	FGTLHT	SSA	AKT	I	DRI	DV	FP	GS	D	K	D	M	V	R	S	L	S	E	S	L	R	A	V	I	A	Q	K	L	L	K		270								
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	PDIIILVGEL	R	DLE	ETIRL	ALMTAA	ETGHLV	FGTLHT	NSA	T	K	T	I	N	R	I	D	V	F	P	A	E	E	K	S	M	V	R	S	L	S	E	S	L	Q	A	V	A	Q	S	L	L	K		270	
NTDB	id	1259	GC085	RS10305	WP	010947729.1	PDIIILVGEL	R	DLE	ETIRL	ALMTAA	ETGHLV	FGTLHT	NSA	T	K	T	I	N	R	I	D	V	F	P	A	E	E	K	S	M	V	R	S	L	S	E	S	L	Q	A	V	A	Q	S	L	L	K		270	
NTDB	id	1202	PSJM300	01600	AFN	76400.1	PDIIILVGEM	R	DLE	ETIRL	ALMTAA	ETGHLV	FGTLHT	NSA	T	K	T	I	N	R	I	D	V	F	P	A	E	E	K	S	M	V	R	S	L	S	E	S	L	Q	A	V	I	S	Q	T	L	L	K		270
NTDB	id	1194	PA0395	NP	249086.1	PDIIILVGEM	R	DLE	ETIRL	ALMTAA	ETGHLV	FGTLHT	NSA	T	K	T	I	N	R	I	D	V	F	P	A	E	E	K	S	M	V	R	S	L	S	E	S	L	Q	S	V	I	S	Q	T	L	L	K		270	
NTDB	id	1020	ACIAD	RS04210	WP	011182164.1	PDIIILVGEM	R	DLE	ETIRL	ALMTAA	ETGHLV	FGTLHT	NSA	T	K	T	I	N	R	I	D	V	F	P	A	E	E	K	S	M	V	R	S	L	S	E	S	L	Q	A	V	I	S	Q	T	L	L	K		270
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1	PDIIILVGEM	R	DLE	ETIRL	ALMTAA	ETGHLV	FGTLHT	NSA	T	K	T	I	N	R	I	D	V	F	P	A	E	E	K	S	M	V	R	S	L	S</															

```

NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 78871 EC1303 RS15985 WP 001295381.1
NTDB id 1448 BW25113 RS15320 WP 001326494.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PA0395 NP 249086.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1

```

[illegible]

```

NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 78871 EC1303 RS15985 WP 001295381.1
NTDB id 1448 BW25113 RS15320 WP 001326494.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PA0395 NP 249086.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1

```

Sequence	Position
LTIFQSGIEKVKEGITITIEEVNRVTVD	574
QTFDQALYQLVVDKTISEQDALHSAADSANDLRLMLKTK.RGDDY..GSGSLQNVKI.....DME.....	368
QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLG.SETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR...	381
QTFDQALFDLYDHQHSYADALKHADSPNNLRLQIKLS.EEANKPLDNRERMSEMER.....KMTFDGQRRNLK...	383
ITFQQSYQHRVGEGR	326
ITFQQSYQHRVGEGR	326
VTMDAYLAGLFRHLLITYDKGLERAIDPKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSSTGRGGDFGRGA	393
QTMDDQLQSLVLRQGLIAPEVARRRRAQNSEMSF	347
QTMDDQLQSLVLRQGLIAPEAAARRRAQNSEMSF	347
QTMEQNAKQLIARGVVDAQEVQSKIETDLKAF	345
QTMEQNAKQLIARGVVDAQEVQSKIETDLKAF	345
QTLDQHLTELNVKNIIISKHTAHEAALNK.SLF	344
QTLDQHLTELNVKNIIISKHTAHEAALNK.SLF	344
QTLDSCCLKGLIAKLISRDSAKEKAKQP.ENF	344
QTLDMCLKGLVAKGLISRARENAREKAKIP.ENF	344
TTLDDQLKQLIAKGIIINLPTARAVAKSP.ESF	344
TTLDDQLKGLVSRGVISPQTARTAAKQP.ESFL	345
TTLDDQLKGLVARGVISPQTARTAAKQP.ESFL	345
TTLDDQLKGLVARGVISPQTARTAAKQP.ESFL	345

logo

NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	574
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 78871 EC1303 RS15985 WP 001295381.1	.....	326
NTDB id 1448 BW25113 RS15320 WP 001326494.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	AAPATPAAPAAGRSEPGRAGGFGRR	418
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PA0395 NP 249086.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved