

logo

NTDB id 1306 DR RS10060 WP 027479822.1	MALSI GDRRLGAILLDQGYLGDN DLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR	80
NTDB id 205184 A2U20 RS07325 WP 021117771.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	SIRPQTALNLQAFPPFALEGDRRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEI WVPSGASDA	160
NTDB id 205184 A2U20 RS07325 WP 021117771.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	GRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSG FHPGEEVLGSM	240
NTDB id 205184 A2U20 RS07325 WP 021117771.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	LRADALRLLAVPVDETEQGVTVLTSDPRKRFPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSRDQL	320
NTDB id 205184 A2U20 RS07325 WP 021117771.1	.....	0
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 1366 NTHI RS01950 WP 011271972.1	.....	0
NTDB id 1355 HI 0298 AAC21962.1	.....	0
NTDB id 1168 A1552VC RS11070 WP 000957200.1	.....	0
NTDB id 1293 VP RS12240 WP 005479695.1	.....	0
NTDB id 1401 DSB67 RS12665 WP 010643259.1	.....	0
NTDB id 1110 NGFG RS09235 WP 003689817.1	.....	0
NTDB id 1251 GC085 RS07725 WP 011946523.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
NTDB id 1058 ABD1 RS01615 WP 001274986.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	REALQVQAREGKVPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLVQSGKISPEMIARSIAAQLGYEFLDPIQNPP	400
NTDB id 205184 A2U20 RS07325 WP 021117771.1	MSQ....YT....VCEQQTERIFD.....ISP	19
NTDB id 1384 A4U84 RS08525 WP 010787006.1	MSQ....YT....ICEQQTERIFD.....ISP	19
NTDB id 1366 NTHI RS01950 WP 011271972.1	MTS....YALLHTQRVTAQNGEIFT.....ISP	24
NTDB id 1355 HI 0298 AAC21962.1	MTS....YALLHTQRVTAQNGEVFT.....ISP	24
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLIELSIFHAQELTEQLSHIFGLPETDLSRYDY	69
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLTSLRQKGLTFSQEESSLIEQVKASGISMPEALLSSGFFTSSSLAEHLSSIFGLSQPELSQY EY	69
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSQEESSLIEQVKASGISMPEALLSSGFFQSHLTELSSVFCLSCSTSLNQY EY	69
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLFSDGVTSPKSLAALIAARVFSYSILDLRHYP R	68
NTDB id 1251 GC085 RS07725 WP 011946523.1	...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQNFQVPM L DINCIDV	77
NTDB id 1018 ACIAD RS01685 WP 004920473.1	...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLLIDNFSISPLTIAEITISLEFGEPL L DLGVFDP	77
NTDB id 1058 ABD1 RS01615 WP 001274986.1	...MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQDVTAYLITEEVHLSPSLLAETISAEFAEPY F DLVDYDT	77
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	DPKVALMPEATARRVYVVPVRLQGNSLVVAMKDPRNVFALDDLKLITGKETLPVAVMAEKDIIIRLTIERYFGEKGFEKLNK	480
NTDB id 205184 A2U20 RS07325 WP 021117771.1	SRWQKNCEEKELLLRRLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVVIASDELKYLLNALSPEQQPLYEE.	98
NTDB id 1384 A4U84 RS08525 WP 010787006.1	SRWQKNCEEKQLLLRRLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVVIASDELKYLLNALSPEQQPIYEE.	98
NTDB id 1366 NTHI RS01950 WP 011271972.1	DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGKPVPEPILLESSQLKELLQQLTPHQMQUEEQ.	103
NTDB id 1355 HI 0298 AAC21962.1	DLWERNQQQQSLILRYFALPLKEENNRLWLGVDLSNLSACETIAFITGKPVPEPILLESSQLKELLQQLTPNQMQVEEQ.	103
NTDB id 1168 A1552VC RS11070 WP 000957200.1	ANLCQQIGLRELITRYDALPIAKQGNLLLLAVSDPTLLQAEFEFRFATGLQVELALADHRALQAATIRRLYGRSIQGAANQ	149
NTDB id 1293 VP RS12240 WP 005479695.1	ASLCQQIGLRELITRHNALPLHRTPTSTLLLAVADPTNQQAEDDFRFATGLQVELVLADDFRELSTAIRRLYGRSLSHEKSG	149
NTDB id 1401 DSB67 RS12665 WP 010643259.1	ASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADDFRELTAATIRRLYGRSLGQEKSG	149
NTDB id 1110 NGFG RS09235 WP 003689817.1	HRVLMGVLTEEQMVFEHCVPVFRRGDKVFFAVSDPTQMPQIQKTVSAAGIAGELVIVEDDQLAGLLLDWVGSRSTSL.LQ	146
NTDB id 1251 GC085 RS07725 WP 011946523.1	GTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSE	157
NTDB id 1018 ACIAD RS01685 WP 004920473.1	ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPTNIEAMDAIRFNSKLLKVEPIIVEHDKLERLLSEHFVEETHFNFD T	157
NTDB id 1058 ABD1 RS01615 WP 001274986.1	SQIPKDLVDQKLLILKHRIPLLIQRGQILYVATSNPSNIEAIDAIRFNSKLLVPEVIVEHHKLEKVLGQHF AEES SFDFND	157
consensus		

NTDB	id	1306	DR	RS10060	WP	027479822.1	EL.....AERNKTQSQSEADLSVADESAIVQVVDSTIREAALQDASDIHIETTEDAVKVRYYRIDGALREQNSFP	549
NTDB	id	205184	A2U20	RS07325	WP	021117771.1	SELAFVEQEQQEQLNLSDPPIIQLLDNLFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLKYKSL	162
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	SELAFVHEQEQQELNLPNDPPIIQLLDNLFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLKYKSL	162
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	VKFYQHGETHFEEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPPLIS	167
NTDB	id	1355	HI	0298	AAC21962.1		VKFYQHGETHFEEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPPLIS	167
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	GK..EISQDELANLVKVSDDELQSIEDLSQDDSPVSRYFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDCGILVETQQPA	227
NTDB	id	1293	VP	RS12240	WP	005479695.1	LK..EINQEELASLVDVGADEIDNIEDLSQDDSPVSRYINQILLDAVRKGASDIHFEPYEKMYRVRLRCDGILIETQQPP	227
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	LK..EINQDELAGLVDIGEDEIENIEDLSQDDSPVSRYINQILLDAVRKGASDIHFEPYENMYRVRLRCDGILIEIQPP	227
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	EL.....GEGVEEESHSTLYIDNEEAEDGPVPRFIHKTLSDALRSGASDIHFEFYEHNNARIRFRVDGGLREVQPP	217
NTDB	id	1251	GC085	RS07725	WP	011946523.1	YVEDSGDLEGLEISAD.DEDQDIDTATSVTDAPIVKFVNKIILLDAIRQGASDIHFEPYEREYRIRYRQDCILHEVATPP	236
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	E...ELD...LDVEVDPHTTDDDDDEDKCLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKS YRVRYRVDGVLRLIATPP	231
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	E...EFD...LDVNLDGPTAQEDEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKS YRVRYRVDGVLRLQIANPP	231
consensus							* *** ***** !!!!!!*!*!**** !!!!!!*!*!	**

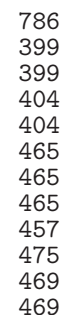
NTDB	id	1306	DR	RS10060	WP	027479822.1	KGA	A	Q	T	M	A	R	L	K	I	M	G	H	L	D	I	A	E	R	R	V	P	Q	D	G	R	V	R	F	K	.	.	K	G	S	I	D	L	D	L	R	L	S	T	L	P	T	V	Y	G	E	K	A	V	M	R	L	L	Q	K	A	S	N	I	P	E	L	Q	L	G	F	S	E	Y	N	Y	627				
NTDB	id	205184	A2U20	RS07325	WP	021117771.1	I	Q	L	A	S	R	L	I	S	R	I	K	L	A	K	L	D	I	S	E	L	R	Q	P	Q	D	G	Q	F	S	F	T	T	A	L	.	A	D	T	L	D	F	R	V	S	S	L	P	T	I	Y	G	E	K	L	V	L	R	L	Q	K	N	K	P	T	S	F	D	F	L	Q	L	G	F	N	P	Q	Q	Q	Q	241
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	I	Q	L	A	S	R	L	I	S	R	I	K	L	A	K	L	D	I	S	E	L	R	Q	P	Q	D	G	Q	F	S	F	T	T	A	L	.	A	D	T	L	D	F	R	V	S	S	L	P	T	I	Y	G	E	K	L	V	L	R	L	Q	K	N	K	P	T	S	F	D	F	L	Q	L	G	F	N	P	Q	Q	Q	241	
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	K	I	F	A	N	R	I	S	R	I	K	L	A	K	L	D	I	S	E	N	R	L	P	Q	D	G	R	F	Q	F	K	T	T	F	.	S	D	I	L	D	F	R	L	S	T	L	P	T	H	W	G	E	K	I	V	L	R	A	Q	N	K	P	V	E	L	S	F	A	E	L	G	M	T	E	N	Q	Q	246			
NTDB	id	1355	HI	0298	AAC21962.1	K	I	F	A	N	R	I	S	R	I	K	L	A	K	L	D	I	S	E	N	R	L	P	Q	D	G	R	F	Q	F	K	T	T	F	.	S	D	I	L	D	F	R	L	S	T	L	P	T	H	W	G	E	K	I	V	L	R	A	Q	N	K	P	V	E	L	S	F	S	E	L	G	M	T	E	N	Q	Q	246				
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	S	H	L	S	R	R	L	A	A	R	I	K	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	R	L	S	R	.	D	T	A	I	D	M	R	V	S	T	L	P	T	L	W	G	E	K	I	V	L	R	L	D	S	S	A	A	N	L	D	I	D	K	L	G	Y	N	P	Q	Q	Q	306		
NTDB	id	1293	VP	RS12240	WP	005479695.1	N	H	L	S	R	R	L	S	A	R	I	K	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	K	L	N	Q	.	D	T	A	I	D	M	R	V	S	T	L	P	T	L	F	G	E	K	I	V	L	R	L	D	S	S	S	A	S	L	D	I	D	K	L	G	Y	S	E	Q	Q	Q	306		
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	S	H	L	S	R	R	L	S	A	R	I	K	L	S	K	L	D	I	A	E	R	R	L	P	Q	D	G	R	I	K	L	K	L	N	Q	.	D	T	A	I	D	M	R	V	S	T	L	P	T	L	F	G	E	K	I	V	L	R	L	D	S	S	S	A	S	L	D	I	D	K	L	G	Y	S	D	S	Q	Q	306		
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	I	A	V	R	G	Q	L	A	S	R	I	K	V	M	S	R	L	D	I	S	E	K	R	I	P	Q	D	G	R	M	L	T	F	Q	K	G	K	P	.	V	D	F	R	V	S	T	L	P	T	L																															

NTDB	id	1306	DR	RS10060	WP	027479822.1	ARYTEITETFPNGIFLVTGPTGSGKSFTCFSTLKRIAKPEKNTTTIEDPIEYEVPCIVQSQVNNSTGMTFARALRAFLRQD	707
NTDB	id	205184	A2U20	RS07325	WP	021117771.1	TTLNLALKQPQGLILVTGPTGSGKSITLYSALNLYLNQMDDKHILTAEDPVEIEIDGLIQTQVNQSIINLDFSQLLRTFLRQD	321
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	TTLNLALKQPQGLILVTGPTGSGKSITLYSALNLYLNQMDDKHILTAEDPVEIEIDGLIQTQVNRSIQGLDFSQLLRTFLRQD	321
NTDB	id	1366	NTHI	RS01950	WP	011271972.1	QAQRSLSQPQGLILVTGPTGSGKSSISLYTALQWLNTPDKHIMTAEDPTEIELDGIIQSINPQIGLDFSRLLRALFLRQD	326
NTDB	id	1355	HI	0298	AAC21962.1		QAQRVLSPQQGLILVTGPTGSGKSSISLYTALQWLNTPDKHIMTAEDPTEIELDGIIQSINPQIGLDFNRLLRTFLRQD	326
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	QLYLNALKRPPGMILMTGPTGSGKTVSlyTGRLILNTSQINISTAEDPVEINLSGINQVVQPKIGFGFAEALRSFLRQD	386
NTDB	id	1293	VP	RS12240	WP	005479695.1	QLYLEALRRPQGMILMTGPTGSGKTVSlyTGLNILNKPEINISTAEDPVEINLSGINQVVQPKIGFGFAEALRSFLRQD	386
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	QLYLDALRRPQGMILMTGPTGSGKTVSlyTGLSILNKPEINISTAEDPVEIYLPGINQVVQPKIGFGFAEALRSFLRQD	386
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	KLLLEAETHRPYCMVLTGPTGSGKTVSlyTCLNILNTESVNIATAEDPAEINLPGINQVNVNDKQGGLTFAAALKSFLRQD	377
NTDB	id	1251	GC085	RS07725	WP	011946523.1	TNFLKAIRPPQGMILVTGPTGSGKTvTYLTALNILNTIEVNISTAEDPVEIKVPGINQVINPNKAGLTFSGALRSFLRQD	395
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	ALFMEALNKPQGMILLTGPTGSGKTVSlyTGLNILNTEHANISTAEDPVEINLEGVNVQVNVNPKVGLTFAAALRSFLRQD	390
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	ALFMEALNKPQGMILLTGPTGSGKTVSlyTGLNILNTESSNISTAEDPVEINLEGVNVQVNVNPKVGLTFAAALKSFLRQD	390
consensus							* * * * *	

```

NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 205184 A2U20 RS07325 WP 021117771.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



```

NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 205184 A2U20 RS07325 WP 021117771.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



```

NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 205184 A2U20 RS07325 WP 021117771.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



- X non conserved
- X similar
- X > 50% conserved