

logo

NTDB id 1306 DR RS10060 WP 027479822.1	MALSI GDRRLGAILLDQGYLGDN DLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR	80
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 339342 ER009 RS02145 WP 149785851.1	.....	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 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	SIRPQTALNLQAFPPFALEGDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIIVVPSGASDA	160
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 339342 ER009 RS02145 WP 149785851.1	.....	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 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	GRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM	240
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 339342 ER009 RS02145 WP 149785851.1	.....	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 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	LRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSRDQL	320
NTDB id 1384 A4U84 RS08525 WP 010787006.1	.....	0
NTDB id 339342 ER009 RS02145 WP 149785851.1	.....	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 1058 ABD1 RS01615 WP 001274986.1	.....	0
NTDB id 1018 ACIAD RS01685 WP 004920473.1	.....	0
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	REALQVQAREGKVPLGEVITELGFASPDEVDSALQKQNVGGGRIEDTLVQSGKISPEMIARSLAAQLGYEFLDPIQNPP	400
NTDB id 1384 A4U84 RS08525 WP 010787006.1	MSQY....TI.....CEQQTERI.....FDISP	19
NTDB id 339342 ER009 RS02145 WP 149785851.1	MAYQAIKNGEI.....YQISP	17
NTDB id 1366 NTHI RS01950 WP 011271972.1	MTSY....ALLHTQRTAQNGEI.....FTISP	24
NTDB id 1355 HI 0298 AAC21962.1	MTSY....ALLHTQRTAKNGEV.....FTISP	24
NTDB id 1168 A1552VC RS11070 WP 000957200.1	MLTNLVAIIRQAELISATQEQAVVTQVSASGTSVPEALLIELSIFHAQELTEQLSHIFGLPETDLSRYDY	69
NTDB id 1293 VP RS12240 WP 005479695.1	MHSNLTSLRQKGLTFSQEESSLIEQVKASGISMPEALLSSGFFTSSSLAEHLSSIFGLSQPELSQY EY	69
NTDB id 1401 DSB67 RS12665 WP 010643259.1	MLTNLSTVLRQAGILTFSQEESSLIEQVKASGISMPEALLSSGFFQSHLTHELSSVFLSCTSLNQY EY	69
NTDB id 1110 NGFG RS09235 WP 003689817.1	MSVGLLRILVQNQVVTVEQAEHYY.NESQAGKEVLPMLFSDGVTSPKSLAALIAARVFSYSILDLRHYPR	68
NTDB id 1251 GC085 RS07725 WP 011946523.1	...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTA AQNFGVPMLDINCIDV	77
NTDB id 1058 ABD1 RS01615 WP 001274986.1	...MSALHTSPKFTGFFRRIVEEKHVSAAATMQTALDAAKRAKQD TVAYLIEEVHLSPSLLAETISA EFAEYPFDLDVYDT	77
NTDB id 1018 ACIAD RS01685 WP 004920473.1	...MSAFTTPPKFSGFIRRIVEEGYVNAQNMQQALEKAKKFKQDIVPYLIDNFSISPLTIAEITISLEFGEPLLDLG VFDP	77
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	DPKVALMPEATARRYVVVPVRLQGNSLVVAMKDPRNVFALDDLKLITGKETLPVAVMAEKDIIIRLIERYFGEKGFEKLNK	480
NTDB id 1384 A4U84 RS08525 WP 010787006.1	SRWQKNCEEKQLLLRYLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVIASDELKYLLNALSPEQQPIY EES	99
NTDB id 339342 ER009 RS02145 WP 149785851.1	QYWQQNQQQQALLRLRYFALPLKEDEHHLWLAVDSLNNLAACETFAFLSGKLVEPILFETHQLKQLLQSLAPKANQIIEEQ	97
NTDB id 1366 NTHI RS01950 WP 011271972.1	DLWERNQQQQSLILRLRYFALPLKEENNRLWLGVDSLNLISACETIAFITGKPVPEPILLESSQLKELLQQLTPNQMQV.EEQ	103
NTDB id 1355 HI 0298 AAC21962.1	DLWERNQQQQSLILRLRYFALPLKEENNRLWLGVDSLNLISACETIAFITGKPVPEPILLESSQLKELLQQLTPNQMQV.EEQ	103
NTDB id 1168 A1552VC RS11070 WP 000957200.1	ANLCQQILGLRELITRYDALPIAKQGNLILLAVSDPTLLQAEFEFRFATGLQVELALADHRAALQAATIRRLYGRSIQGAANQ	149
NTDB id 1293 VP RS12240 WP 005479695.1	ASLCQQILGLRELITRHNALPLHRTPTSTLLLAVADPTNQQAEEDDFRFATGLQVELVLADFRELSTAIRRLYGRSLSHEKSG	149
NTDB id 1401 DSB67 RS12665 WP 010643259.1	ASLCQTLGLRDLITRHNALPLNRTSSTLILAVADPTNLQAEDDFRFATGLQVELVLADFRELTAATIRRLYGRSLGQEKSG	149
NTDB id 1110 NGFG RS09235 WP 003689817.1	HRVLMGVLTEEQMVFEHCVPVFRRGDKVFFAVSDPTQMPPIQKTVSAAGIAVELVIVEDDQLAGLLDWVGSRSSTSL.LQ	146
NTDB id 1251 GC085 RS07725 WP 011946523.1	GTIPVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSE	157
NTDB id 1058 ABD1 RS01615 WP 001274986.1	SQIPKDLVDQKLILKHRILPLIQRGQILYVATSNP SNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFDFND	157
NTDB id 1018 ACIAD RS01685 WP 004920473.1	ALFLKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPNTIEAMDAIRFNSKLLKVEPIIVEHDKLERLLSEHFVEETHFNFD T	157
consensus		

logo

NTDB id 1306 DR RS10060 WP 027479822.1	EL.....A..ERNKTKSQSEADLSVADESAIVQVVDSTIREAALQDASDIHIETTEDAVKVRVYRIDGALREQNSFP	549
NTDB id 1384 A4U84 RS08525 WP 010787006.1	E.....LAFVEQEQE....QLNLNDPIIQLLDNLFFKFCLAQNASDIHIEPRKQKLIIRLRIDGVLHLKYKSL	162
NTDB id 339342 ER009 RS02145 WP 149785851.1	T.....TFYHHSSEDENTANISNDDEPVIQLLNGIFETALQKNASDIHLETQPSGLLVRLRIDGVLQPPIIS	164
NTDB id 1366 NTHI RS01950 WP 011271972.1	V.....KFYQHQETH...FEQEDDEPVIRLLNQIFESALQKNASDIHLETADQFQVVRFRIDGVLQPPLIS	167
NTDB id 1355 HI 0298 AAC21962.1	V.....KFYQHQETH...FEQEDDEPVIRLLNQIFESALQKNASDIHLETADQFQVVRFRIDGVLQPPLIS	167
NTDB id 1168 A1552VC RS11070 WP 000957200.1	GK..EISQDELANLVKVSDDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGGASDIHFEPYENQYRIRLRCDGILVETQQPA	227
NTDB id 1293 VP RS12240 WP 005479695.1	LK..EINQEELASLVDVGADIEDNIEDLSQDDSPVSRFINQVLLDAVRKGGASDIHFEPYENQYRIRLRCDGILVETQQPA	227
NTDB id 1401 DSB67 RS12665 WP 010643259.1	LK..EINQDELAGLVDIGEDIENIEDLSQDDSPVSRFINQVLLDAVRKGGASDIHFEPYENQYRIRLRCDGILVETQQPA	227
NTDB id 1110 NGFG RS09235 WP 003689817.1	EL.....GEGQEEESHTLYIDNEEADGVPVRFIHKTLSDALRSGASDIHFEPYENQYRIRLRCDGILVETQQPA	217
NTDB id 1251 GC085 RS07725 WP 011946523.1	YVEDSGDLEGLEISAD.DEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGGASDIHFEPYERERYRIRYRQDGLLHEVATPP	236
NTDB id 1058 ABD1 RS01615 WP 001274986.1	E...EFD...LDVNLDGPTAQEDEEFAPQGDAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRVYRVDGVLRLQIANPP	231
NTDB id 1018 ACIAD RS01685 WP 004920473.1	E...ELD...LDVEVDPHTTDDDDDEDKCLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRVYRVDGVLRLIATPP	231
consensus	*****	

logo

NTDB id 1306 DR RS10060 WP 027479822.1	KGAIAQQIMARLKIMGHLDIAERRVPQDGRVRFK..KGSIDLRLSTLPTVYGEKAVMRLLQKASNIPELEQLGFSEYNY	627
NTDB id 1384 A4U84 RS08525 WP 010787006.1	IQLASRLISRIKLLAKLDISELRQPQDGFQFSFTTAL..ADTLDFRVSSLPTIYGEKLVRLRLQKNKPTSFDFLQLGFNPQQQ	241
NTDB id 339342 ER009 RS02145 WP 149785851.1	KSLANRVISRLKLLAKLDISETRLPQDGRFQFKTTF..SDILDFRLSTLPTHWGEKAVLRLQKNKPVLQSFSAELGMTQNNQ	243
NTDB id 1366 NTHI RS01950 WP 011271972.1	KIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTF..SDILDFRLSTLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQ	246
NTDB id 1355 HI 0298 AAC21962.1	KIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTF..SDILDFRLSTLPTHWGEKIVLRAQQNKPVELSFAELGMTENQQ	246
NTDB id 1168 A1552VC RS11070 WP 000957200.1	SHLSRRLAARIKILSKLDIAERRLPQDGRIRIKRLSR..DTAIDMRVSTLPTLWGEKIVLRLDSSAANLIDDKLGYNPQQK	306
NTDB id 1293 VP RS12240 WP 005479695.1	NHLSRRLSARIKILSKLDIAERRLPQDGRIRIKRLN..DTAIDMRVSTLPTLFGKIVLRLDSSSASLDIDKLGYSEQQK	306
NTDB id 1401 DSB67 RS12665 WP 010643259.1	SHLSRRLSARIKILSKLDIAERRLPQDGRIRIKRLN..DTAIDMRVSTLPTLFGKIVLRLDSSSAAALDINKLGYSDSQK	306
NTDB id 1110 NGFG RS09235 WP 003689817.1	IAVRGQLASRIKVMISRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGKIVLRLDSSAANLIDDKLGYNPQQK	297
NTDB id 1251 GC085 RS07725 WP 011946523.1	ASLSSRITARIKVMISRLDISEKRIPQDGRMQLTFQKGGKPVDFRVSTLPTLFGKIVLRLDSSAANLIDDKLGYNPQQK	315
NTDB id 1058 ABD1 RS01615 WP 001274986.1	LQLANRLASRLKVMISRLDISEKRIPQDGRIRIKRLSK..SKAIDFRVNSLPTLFGKIVLRLDSSAANLIDDKLGYNPQQK	310
NTDB id 1018 ACIAD RS01685 WP 004920473.1	LQLANRLASRLKVMISRLDISEKRIPQDGRIRIKRLSK..SKTIDFRVNSLPTLFGKIVLRLDSSAANLIDDKLGYNPQQK	310
consensus	*****	

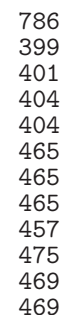
logo

NTDB id 1306 DR RS10060 WP 027479822.1	ARYTEIETERNPNGIFLVTGPTGSGKSFTCFSTLKRITAKPEKNTTIEDPIEYVPGIVQSQVNNSTGMTFARALRAFRLRD	707
NTDB id 1384 A4U84 RS08525 WP 010787006.1	TTLNALKKPPQGLILVTGPTGSGKSITLYSALNYLNQMDKHILTAEDPVEIEIDGLIQTQVNRSIQLDQSLRLRTFLRQD	321
NTDB id 339342 ER009 RS02145 WP 149785851.1	SQFQHALSQPPGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPVEIELEGIIQTQVNPQIGLDFSRLLRTFLRQD	323
NTDB id 1366 NTHI RS01950 WP 011271972.1	QAFQRLSLSQPPGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPVEIELEGIIQSQINPQIGLDFSRLLRTFLRQD	326
NTDB id 1355 HI 0298 AAC21962.1	QAFQRLSLSQPPGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDPVEIELEGIIQSQINPQIGLDFSRLLRTFLRQD	326
NTDB id 1168 A1552VC RS11070 WP 000957200.1	QLYLINALKRPQGMILMTGPTGSGKTVSLYTGLNINLNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQD	386
NTDB id 1293 VP RS12240 WP 005479695.1	QLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNINLNTSQINISTAEDPVEINLSGINQVQVQPKIGFGFAEALRSFLRQD	386
NTDB id 1401 DSB67 RS12665 WP 010643259.1	QLYLALRRPQGMILMTGPTGSGKTVSLYTGLNINLNTSQINISTAEDPVEIYLPGINQVQVQPKIGFGFAEALRSFLRQD	386
NTDB id 1110 NGFG RS09235 WP 003689817.1	KLLLEATHRPYGMVLTGPTGSGKTVSLYTGLNINLNTESVNIATAEDPAEINLPGINQVNVNDKQGLTFAAALRSFLRQD	377
NTDB id 1251 GC085 RS07725 WP 011946523.1	TNFLKAIQRPQGMILVTGPTGSGKTVLYTALNINLNTIEVNISTAEDPVEIKVPGINQVNVNPKAGLTFSGALRSFLRQD	395
NTDB id 1058 ABD1 RS01615 WP 001274986.1	ALFMEALDKPQGMILLITGPTGSGKTVSLYTGLNINLNTESVNIATAEDPAEINLPGINQVNVNPKVGLTFAAALRSFLRQD	390
NTDB id 1018 ACIAD RS01685 WP 004920473.1	ALFMEALDKPQGMILLITGPTGSGKTVSLYTGLNINLNTESVNIATAEDPVEINLPGINQVNVNPKVGLTFAAALRSFLRQD	390
consensus	*****	

```

NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 339342 ER009 RS02145 WP 149785851.1
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 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



```

NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 339342 ER009 RS02145 WP 149785851.1
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 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

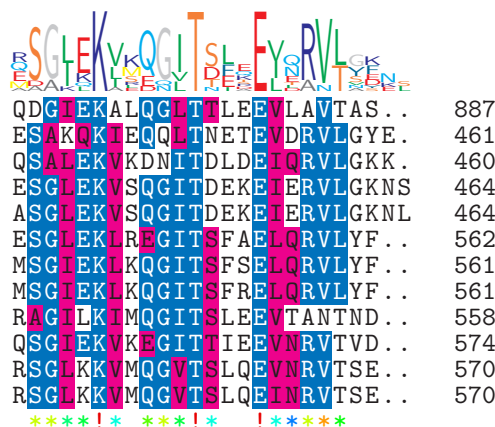
```



```

NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 339342 ER009 RS02145 WP 149785851.1
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 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

```



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