

Specifications:

Gene:	mABCB1B
Accession:	NP_035205
Insert size:	3844bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

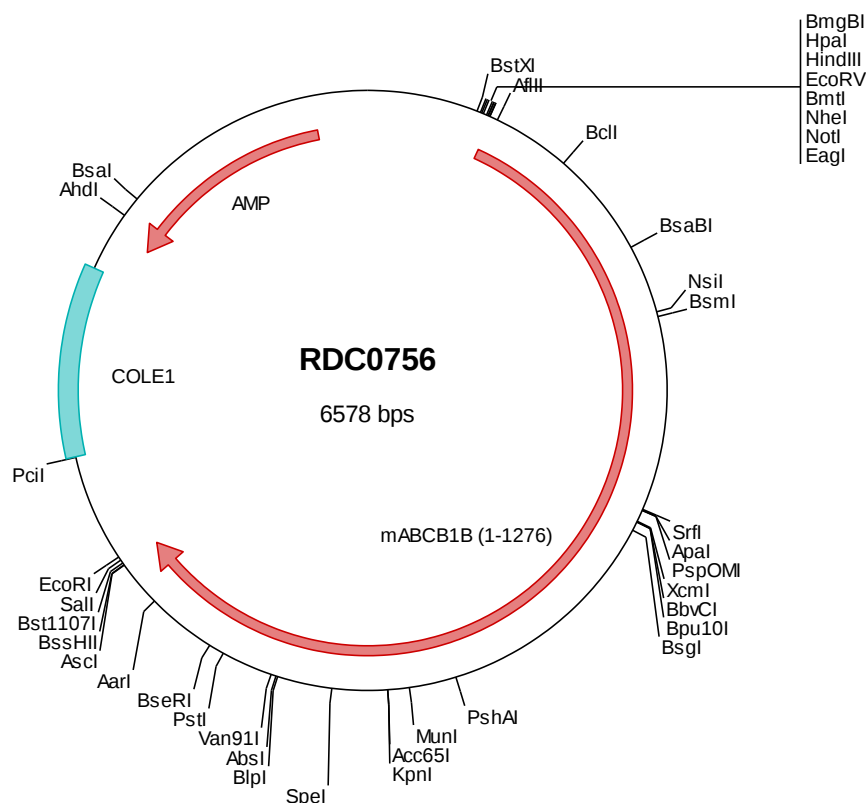
mMDR1/ABCB1B cDNA Plasmid

Abcb1b ATP-binding cassette, sub-family B (MDR/TAP), member 1B [*Mus musculus* (house mouse)]

Also known as: mdr; Mdr1; Pgy1; Abcb1; Mdr1b; Pgy-1

Summary:

ABCB1B is a member of the MDR/TAP subfamily within the superfamily of ATP-binding cassette (ABC) transporters that transport various molecules across extra- and intra-cellular membranes. It plays a role in decreased drug accumulation for multidrug-resistant cells. ABCB1B is responsible for the development of resistance to several anticancer drugs.





> RDC0756 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcggggc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt tttccagctc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggateccgata tcgctagcgc gggcgccacc atggagtttg aagagaacct taagggaaga gcagacaaga acttctcgaa
501  gatgggcaaa aagagtaaaa aggagaagaa agaaaagaaa cctgctgttg gogtatttgg gatgtttcgc tatgcagatt ggctggacaa gctgtgcatg
601  attctgggaa ctctcgtgct tattatccat ggaacattac ttccccctt gatgctgggt ttggaaaca tgacagatag ttttcaaaaa gcagaagcca
701  gtattctgcc aagcattact aatcaaaagt gacccaacag tactctgac atcagcaaca gcagtctgga ggaagagatg gccatatacg cctactatta
801  caccgggagt ggtgctgggt tgctcatagt tgccatcac tcgtgttcac tttggtgcct ggcagctgga agacagatag acaagattag gcagaagttt
901  ttccatgcta taatgaatca ggagataggg tggtttgatg tgcgatgatg tggggagctc aacacccggc tcacagatga tgtctccaaa attaatgacg
1001 gaattggtga caaaattggg atgttttttc agtccataac cactttttta gccggtttta tcataggatt tataagtggt tggaaagctaa ccttgttcac
1101 tttgctgtac accctgtttg ttggattgtc atctgctttg ttggcaaggg tattgacttc ttttactaat aaggaaactc aaggaattag ggcagaagttt
1201 gcagttgctg aagaagtctt agcagccatc agaactgtga ttgcttttgg aggacaacag aaggaaactg aaaggtacaa taaaatttta gaagaagcta
1301 aaaaatgttg cataaagaaa gctatcacag ccagcatttc gataggcatt gctactctat ttgttggggg acttttagta ctggacactt ggcctcaaac
1401 ttccctggct tccttcaaat aatattctat ttgctcatag ccttttgaag tcttcaagat aattgataac gagccaagca ttgacagctt ctcaacaaag ggctacaaac
1501 atagaagcct ttgcaaacgc acgaggggca gcctttgaaa tcttcaagat aattgataac ccactcgagaa gcgaagtcca gatcttgaag ggcctcaatc tgaagtgaa
1601 cagacagatg aatgggaaac tttagattta aaaaatgtca cttcaactac caactgtcca cactgttcca gatcttgaag aggcctctac ggcgtgtggt
1701 taagggcagc acgtgtggcc cagtggtctg taagagatgt atctgaggga gatcatttgt gtggtgagtc aggaacctgt gctgtttgcc accacgatcg
1801 agtatcgacg gacaagacat cagaaccatc aatgtgaggt atctgaggga gatcatttgt gtggtgagtc aggaacctgt gctgtttgcc accacgatcg
1901 ccgagaacat tcgctatggc cgagaagatg tcaccatgga tgagattgag aaagctgtca aaagctgtca aggaagccaa tgcctatgac aactgcccc
2001 ccaatttgac accctgtttg gtgagagagg ggcgcagctg agtgggggac agaaaacagag aatcgccatt gcccgggccc tggctcgcaa tcccaagatc
2101 cttttgttgg acgagggcac ctacgcccgt gatacagaaa gtgaagctgt ggtgcaggcc gctgtgagtc gctgtgagtc tcatgtgga gcaaggaat
2201 tagctcatcg cttgtctaca gttcgttaag ctgacgtcat tgctgttttt ttgaaccagg ttgaaccagg caaataatgct tatggatccc agagtgaac
2301 aaagggcatt tacttcaaac ttgtcatgac acagactaga ggaatgaaa gatacaatta cagaagtgtc ctaaatctaa gtgaatggcc ttatttactt
2401 gaactgactt cagaagaatc caaatcacct ttaataagga gatcaattta ctaaatctaa ctaaatctaa gtgaatggcc ttatttactt ttggcgctac
2501 aggctgtgga tgaagatgtg cctctggttt ccttttggcg gatcctaata tcaagagattg ttgggttttt ggtcaagagat gatgacctg gatgacctg
2601 tataaatgag tgcatacaac cagtgttttg catagtattt tcaagagattg ttgggttttt ggtcaagagat gatgacctg gatgacctg
2701 aatttgtttt cctgtgtctt tctggttatg ggtgctgatt cttttgttac atatttcttt cagggtctca catttgcaa agccggagag atcctacca
2801 agcgagtccg atacatggtt tcaaaatcca tgctgagaca ggtgcccgat taagggcgat gtaattatac gcgtcattgt attggcgga ctattgtctc
2901 cgtgatgctt tctagtgtta atagggcgat tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta
3001 tatggtgctg agctgacact tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta tctacttgta
3101 acaagaaaac gcttgagact tctggaaga ttgtctacaga aagaagcagtg aagaagcagtg aagaagcagtg aagaagcagtg aagaagcagtg aagaagcagtg
3201 gtatcccgac agcttgcagg taaccatacag aactgttatcag aactgttatcag aactgttatcag aactgttatcag aactgttatcag aactgttatcag
3301 tatgctgctt gtttccggtt cgtgtgctac ttggtggcac acaactcat gacttttgaa aatgttatgt ttggtatgtt tgggtatgtt
3401 tggcagctgg gaatactagt ctgattgtct ctgcttatgaa gaaagcgaag gaaagcgaag gaaagcgaag gaaagcgaag gaaagcgaag
3501 cagctacagc acagagagtg tgaagcctac tctgttatgaa aatttaaatg aatttaaatg aatttaaatg aatttaaatg aatttaaatg
3601 cttcaggggc tgagcctcga ggtgaagaag ggccagacgt ttggccctgtt gggcagcagt gggcagcagt gggcagcagt gggcagcagt gggcagcagt
3701 tctacgaccc catggtgga tgaagtgttc tagatggcaa aagaataaag caactgaatg acagcggggc cgtgtctcat gaggagattg
3801 gcccattctc tttgactgca gcaattgaga gcaattgaga gcaattgaga gcaattgaga gcaattgaga gcaattgaga gcaattgaga gcaattgaga
3901 aacatccacc agttcactga ccaactgcct tttactctca gataaataca acaccagagt agagagacaa ggcactcagc ggcactcagc ggcactcagc
4001 tcgcagctgc cctgctcaga cagctcaca tttactctca gataaataca acaccagagt agagagacaa ggcactcagc ggcactcagc ggcactcagc
4101 caaagccagg gaagggcgca cctgcattgt gatecgtcac cgctgttcca ccatccagaa cgcggacttg atcgtgtgta atcgtgtgta atcgtgtgta
4201 gagcacggca cccaccagca gctgctggcg tctactcttc tctactcttc aatgggtccg gctggagcaa agcgtctata aagggcgccc agtatactct
4301 agagtgcaca cccgggaat tctcgtgagc ctctgtctca gcttggcgta atcattggtc atcattggtc atcattggtc atcattggtc atcattggtc
4401 cacacaacat acgagccgga agcataaagt gtaaagcctg ggtgtgctaa tgagtgaagt aactcacatt aattgcgttg cgctcactgc ccgctttcca
4501 gtcgggaaac ctgctgtgct agctgcatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt gggcgctctt ccgcttctct gctcactgac
4601 tgcgtgcgct cgtgctgtcg gctgcccga cgcgttatcag ctcactctca cgcgttataa ggcgttataa ggcgttataa ggcgttataa ggcgttataa
4701 tgtgagcaaa agggccagca aaggccagga accgtaaaaa ggccgcgttg cgtggctttt tccataggct ccgccccctt cctcgtgctc ctctgtttcc gacctggccg
4801 acgctcaagt cagaggtggc gaaacccgac aggaactata agataaccag tcaatgctca cgtctgaggt atctcagttc atctcagttc atctcagttc atctcagttc
4901 cttacgggat acctgtccgc ctttctccct tcgggaagcg cgtggcgttt cctggtaact atcgtcttga atcgtcttga atcgtcttga atcgtcttga
5001 agctgggctg tgtgcacgaa ccccccgctt agcccgaccg cagagcgagg tatgtaggcg gtgtctacaga gtgtctacaga gtgtctacaga gtgtctacaga
5101 actggcagca gccactggta acaggattag ccagttacct tccgaaaaag agttggttag atccttttga tctttttctac ttaaaaaatga agtttttaaa
5201 acagtatttg gtatctgcgc tctgctgaag attacgcgca gaaaaaaagg ttacacctga ttcacctaga agcactctct ctatttcgct acccagctc acccagctc
5301 tttttgtttg caagcagcag attacgcgca gaaaaaaagg ttacacctga ttcacctaga agcactctct ctatttcgct acccagctc acccagctc
5401 acgttaaggg attttgttca tgagattatc atcagtgagg gctgccccag tgctgcaatg ataccgcgag ataccgcgag ataccgcgag ataccgcgag
5501 taactcttgt ctgacagtta ccaatgctta atcagtgagg gctacagcca tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg
5601 agataactac gatacgggag ggcttaccat ctgccccag tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg
5701 gccagccgga agggccgagc gcagaagtgg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg tctgtgagtg
5801 gtttaagtgt tgcgcaacgt tgttgccatt gctacagcca aaaaagcggt tagctctctc tccgttaagt tcaatagcgc ataatagcgc ataatagcgc ataatagcgc
5901 ggcaggttac atgatcccc atttctctac ttgtcatgcca tcaatagcgc ataatagcgc ataatagcgc ataatagcgc ataatagcgc ataatagcgc ataatagcgc
6001 gggttatgca gcaactgata atttctctac ttgtcatgcca tcaatagcgc ataatagcgc ataatagcgc ataatagcgc ataatagcgc ataatagcgc ataatagcgc
6101 atcggcgac cgagttgtct ttccccggcg tgatagccag tcccgcaaaa aagggcaaaa atgttgtaag tttttagaaa taattagaaa taattagaaa taattagaaa
6201 ggcgaaaact ctcaaggatc ttaccgctgt tgatagccag tcccgcaaaa aagggcaaaa atgttgtaag tttttagaaa taattagaaa taattagaaa taattagaaa
6301 ttctgggttg gcaaaaacag gaagggcaaaa atgttgtaag tttttagaaa taattagaaa taattagaaa taattagaaa taattagaaa taattagaaa taattagaaa
6401 tgaagcattt atcaggggta agcggttcat tctgtcatg taattagaaa taattagaaa taattagaaa taattagaaa taattagaaa taattagaaa taattagaaa
6501 tgccacctga cgtctaagaa accattatta tcatgacatt aactataaaa aatagggcga tcacgaggcc ctttctgc
```



> RDC0756 Translated Insert Sequence

```
1  mefeenlkgr adknfsmgk kskkekkek pavgvfgmfr yadwldklcm ilgtlaaiih gtllpllmv fgnmtdsftk aeasilpsit nqsgpnstli
101 isnssleeem aiyayyytgi gagvliivayi qvslwclaag rqiikirkkf fhaimnqeig wfdvhdvgei ntrltddvsk indgigdkig mffqsittfl
201 agfiigfisg wkltlvilav spliglssal wakvltsftn kelqayakag avaeevlaai rtviafaggq kelerynknk eeaknvgikk aitasisigi
301 ayllvyasya lafwygtslv lsneysigev ltvffsillg tfsighlapn ieafanarga afeifkiidn epsidsfstk gykpdsimgn lefknvhfny
401 psrsevqilk glnlkvksgq tvalvgnsgc gksttvqlmq rlydplegqv sidgqdirri nvrylreiig vvsqepvlfa ttiaeniryg redvtmdeie
501 kavkeanayd fimklphqfd tlvgergaql sggqkqriai aralvrnpki llldeatsal dteseavvga aldkaregrt tiviahrlst vrnadviagf
601 dggviveqgn hdelmrekgi yfklvmtqtr gneiepgnna ygsqsdtas eltseesksp lirrsiyrsv hrkqdqerrl smkeavdedv plvsfwriln
701 lnlsewpyll vgvlcaving ciqpvfaivf srivgvfsrd ddhetkrqnc nlfslfflvm glisfvtyff qgftfgkage iltkrvrymv fksmlrqdis
801 wfddhkntsg slttrlasda ssvkgamgar lavvtqnvsn lgtgvilslv ygwqltlllv viiplivlvg iemkllsgq aldkkklei sgkiateaie
901 nfrtivsltr eqkfetmyaq slqvpvyrnam kkahvfgitf sftqammyfs yaacfrfgay lvaqqlmtfe nvmlvfsavv fgamaagnts sfapdyakak
1001 vsashiirii ektpeidsys teglkptlle gnvkfngvqf nypttrnipv lqglslvkkk gqtlalvgss gcgkstvvql lerfydpmag svfldgkeik
1101 qlnvqwlrah lgivsqepil fdcsiaenia ygdnsravsh eeivraakea nihqfidslp dkynttrvgdk gtqlsggqkq riaiaralvr qphillldea
1201 tsaldtesek vvqealdkar egrtciviah rlstignadl ivviengkvv ehgthqqlla qkgyifsmvq agakrs
```