

Product datasheet for RN211714

Abcb1a (NM_133401) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb1a (NM_133401) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Abcb1a
Synonyms:	Abcb1; Mdr1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN211714 representing NM_133401 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCTCGAAGAAGACCTTAACGGAAGAGCAGACAAGAAGCTTCTCAAAGATGGGCAAAAAGAGTAAA
AGGAGAAGAAAAGAAAAGAAACCAGCGGTCACTGTGCTCACAATGTTTCGCTATGCAGTTGGCTGGACAG
ATTTTACATGCTGCTGGGAAGCTCTGGCGCCATTATCCATGGAATTGCGCTCCACTTATGATGCTGGTC
TTTGGAGACATGACAGATAGCTTTGCAAATGTAGGAAACAACCGTAGTATGAGTTTCTACAATGCTACAG
ACATATATGCCAAGCTGGAGGACGAAATGACCAGTACGCCTACTATTACACGGGCATTGGTGCCGGTGT
GCTCATCGTTGCCTACATCCAGGTTTCACTTTGGTGCCTGGCAGCTGGGAGACAAAATACACAAGATTAGG
CAGAAGTTTTTCCATGCCATCATGAATCAGGAGATAGGCTGGTTTGACGTGCATGACGTTGGGGAGCTCA
ACACCCGGCTCACAGATGACGCTCCAAAATTAATGAAGGAATGGTGACAAAATGGAATGTTCTTTCA
GGCAATGGCAACATTTTTTGGTGGTTTTATAATAGGATTTACTCGCGGCTGGAAGCTAACTTTGTGATT
TTGGCCATCAGCCCTGTCTTGGACTGTCAGCTGGTATTTGGCAAAGATATTGTCTTCATTACTGATA
AGGAAGCTCCAGGCTTATGCAAAGCTGGAGCAGTTGCTGAAGAAGTCTTAGCAGCCATCAGAAGCTGTGAT
TGCCTTTGGAGGACAAAAGAAAGAACTTGAAGGTACAATAACAATTTGGAAGAAGCTAAAAGGCTTGGG
ATAAAGAAAGCTATCACGGCCAACATTTCCATGGGTGCAGCTTTTCTGCTTATCTATGCATCATATGCTC
TGGCATTCTGGTATGGGACTTCTTGGTCATCTCAAAGAATACACTATTGGACAAGTGCTCACTGTCTT
TTTTCTGTATTAATTGGAGCATTCACTGTTGGGCAGGCATCTCCAAATATTGAAGCCTTCGCCAATGCT
AGAGGAGCAGCTTATGAAGTCTTCAGTATAATTGATAATAAGCCAGTATAGACAGCTTCTCAAAGAGTG
GGCACAACCCGACAACATAAAGGAAATTTGGAATTCAAAATATTCACTTCAGTTACCCGCTCTCGAA
AGACGTTCAAGTCTTGAAGGGCCTCAACCTGAAGGTGAAGAGCGGGCAGACGGTAGCCCTGGTTGGCAAC
AGTGGCTGTGGGAAAAGCAACTGTCCAGCTGCTGCAGAGGCTCTACGACCCCATAGAGGGCGAGGTCA
GTATCGACGGACAGGACATCAGGACCATCAATGTGAGGTATCTGCGGGAATCATTGGGGTGGTGAAGTCA
GGAACCCGTGCTGTTTGGCACCACAATTGCCGAAAACATTCGCTATGGCCGAGAAAACGTACCATTGGAT
GAGATAGAGAAAGCTGTCAAGGAAGCCAATGCCTATGATTTTCATCATGAAACTGCCCCACAAATTTGACA



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CCCTGGTTGGTGAGAGAGGGGCGCAGCTGAGTGGGGGACAGAAACAGAGGATCGCCATTGCCCGGGCCCT
 GGTCCGCAACCCCAAGATCCTTTTGTGGATGAGGCCACGTGAGCCTTGGACACAGAAAGCGAAGCCGTG
 GTTCAGGCCGCTCTGGATAAGGCTAGAGAAGGCCGGACCACCATTTGTGATAGCTCACCGCTTGTCTACAG
 TTCGCAATGCTGACGTCATTGCTGGTTTTGATGGTGGTGTCTTTGTGGAGCAAGGAAATCATGATGAGCT
 CATGAGAGAGAAAGGAATTTACTTCAAACCTGTGCATGACTCAGACAGCAGGAAATGAAATTGAATTAGGA
 AATGAAGCTTGTGAATCTAAAGATGGAATTGATAATGTGGACATGTCTTCAAAGATTCCAGGATCCAGTC
 TAATAAGAAGAAGATCAACTCGCAAAGCATCCGTGGGCCACATGATCAAGACGGGGAACCTTAGCACCAA
 AGAGGCTCTGGATGACGACGTACCTCCAGCTTCCCTTTTGGCGGATCCTGAAGTTGAATTCAACTGAATGG
 CCTTATTTTGTGGTTGGTGTATTTTGTGCCATAATAAATGGAGGCTTGCACCAGCATTCTCCATAATAT
 TTTCAAAGGTTGTAGGGTTTTTACAAAAATGACACCCCTGAAATCCAGCGGCAGAACAGCAACTTGTT
 TTCTTTATTGTTCTGATCCTTGGGATCATCTTTTATTACGTTTTTCTTTCAGGGCTTACATTTGGC
 AAAGCTGGAGAGATCCTCACCAGCGACTCCGATACATGGTCTTCAAATCCATGCTGAGACAGGACATAA
 GCTGGTTTGTAGACCCTAAAAACACCACAGGAGCGCTGACCACCAGGCTTGCCAATGACGCTGCTCAAGT
 GAAAGGGCTACAGGGTCTAGGCTTGTGTTATTACCCAGAACATAGCAAATCTTGGGACAGGCATCATC
 ATATCCCTGATCTACGGCTGGCAATTGACTTTTTACTCTAGCAATTGTTCCCATCATTGCTATAGCAG
 GAGTGGTTGAAATGAAAAATGTTGTCTGGACAAGCGCTGAAAGATAAGAAGGAACTAGAAGTTCTGGGAA
 GATCGCTACAGAAGCAATTGAAAACCTTTCGCACTGTGCTCTTTGACTCGGGAGCAGAAGTTTAAAAC
 ATGTATGCCAGAGCTTGCAGATACCATACAGAAATGCTTTGAAGAAAGCGCACGCTTTTGGGATCACTT
 TCTCTTACCCAGGCCATGATGATTTTCTCTATGCTGCTTGTTCGGTTTGGTGCCTACTTGGTGGC
 ACGAGAACTCATGACATTTGAAAATGTTCTGTTAGTATTCTCAGCTATTGCTTTTGGTGCATGGCAGTG
 GGGCAGGTCAGTTCATTCGCTCCTGACTACGCGAAAGCCAAAGTCTCGGCATCCACATCATCAGGATCA
 TTGAGAAAATCCCTGAGATTGACAGCTACAGCACGGAGGGCTTGAAGCCTAATATGTTGGAAGGAAATGT
 GAAATTTAATGGAGTCATGTTCAACTATCCCACCGACCAACATCCCAGTGTTCAGGGGCTGAGCCTA
 GAGGTGAAGAAAGGGCAGACGCTGGCCCTCGTGGGCAGCAGTGGCTGCGGGAAGAGTACAGTGGTCCAGC
 TGCTTGAGCGCTTCTATGACCCATGGCCGGAACAGTGTCTTAGATGGCAAAGAAATAAAGCAACTCAA
 TGTCCAGTGGCTCCGCGCCACCTGGGCATTGTGTCCCAGGAGCCCATCTGTTTACTGTCAGCATCGCC
 GAGAACATTGCCTACGGAGACAACAGCCGTGTCGTGTCTCATGAGGAGATCGTGAAGGCAGCCAAGGAGG
 CCAACATCCACCAGTTCATCGACTACTGCCTGAGAAATAACAACACCAGAGTGGGAGACAAGGGACTCA
 GCTGTCCGGCGGGCAGAAGCAGCGCATCGCCATCGCGCGCCCTCGTCAGACAGCCTCACATCTTACTT
 CTGGATGAAGCGACATCAGCTCTGGATACGGAGAGTAAAAGGTCGTCCAGGAAGCGCTGGACAAAGCCA
 GGAAGGCCGACCTGCATTGTGATCGCGCACCCGCTGTCCACCATCCAGAACGCAGACTGATCGTGGT
 GATTCAGAACGGCCAGGTCAAGGAGCACGGCACCCACCAGCAGCTGCTGGCCAGAAAGGCATCTATTT
 TCGATGGTCAGTGTGAGGCTGGAGCAAAGCGCTCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_133401
Insert Size: 3819 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
Components:	<p>The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).</p>
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<p>NM_133401.1, NP_596892.1</p>
RefSeq Size:	<p>4927 bp</p>
RefSeq ORF:	<p>3819 bp</p>
Locus ID:	<p>170913</p>
Cytogenetics:	<p>4q12</p>
Gene Summary:	<p>ATP-binding cassette (ABC) multiple drug transporter P-glycoprotein that is activated during liver regeneration and hepatocarcinogenesis [RGD, Feb 2006]</p>