

## Product datasheet for **SC111206**

### **ABCB10 (NM\_012089) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCB10 (NM_012089) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCB10
Synonyms:	EST20237; M-ABC2; MTABC2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_012089, the custom clone sequence may differ by one or more nucleotides

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ATGCGAGGCCCCCTGCCTGGCCGCTGCGGCTGCTCGAGCCACCGAGCCCTGCCGAGCCAGGTGGGCTCC
TGCCGGTAGCCTGCGTGTGGGCCGCGGCCAGCCGCGTTCCCGGGTCCCTATCGCCGTTCACTGGCCTGAG
GCCGGCGCGGCTATGGGGCGCGGGGCCCGCGCTGCTCTGGGGCGTTGGAGCCGCGCGCCGCTGGAGGAGC
GGCTGCCGGGGCGGGGTCCGGGCGCCTCGCGGGGCGTCTGGGCTCGCGCGGCTCCTGGGGCTGTGGG
CTCGCGGCCCCGCGAGCTGCAGGTGCGGGGCTTTTCCGGGCCAGGCGCTCCTCGGCTCCCGCGCGCCCG
GTTCCCGGGCGGTCCCGCAGCCGCTGCCTGGGAGGGGACGAGGCCTGGCGGCGCGGGGCCGGCGCGCCT
CCCGGGGACAAGGGGCGGCTGCGCCCCGACGGCCGACTCCCGGAGGCCCGGAAGCTCCTGGGGCTGG
CGTACCCTGAGCGCCGGAGGCTGCGAGCTGCGGTTGGATTTCTCACGATGTCCAGTGTATCTCCATGTC
TGCCCCTTTCTTCTGGGAAGATCATTGATGTCATCTATACCAACCCACTGTGGACTACAGCGACAAC
CTGACCCGCTCTGCCTAGGGCTCAGTGCCGTGTTTCTGTGTGGTGTGCCGCAATGCCATTCTGTCT
ACCTCATGCAAACTTCAGGTCAGCGCATTGTGAATAGGCTGAGAACTTCATTATTCTCCTCCATTCTGAG
GCAGGAGGTTGCTTTCTTTGACAAGACTCGCACAGGAGAATTGATTAACCGCCTCTCATCAGACTGCA
CTCCTGGGGCGCTCAGTACTGAAAACCTCTCAGATGGGCTCAGGGCCGGGGCCAGGCTTCCGTAGGCA
TCAGTATGATGTTTTTGTCTCACCTAATCTGGCCACCTTTGTTTTGAGCGTGGTGCCTCCAGTGTCAAT
CATTGCTGTAATTTATGGGCGATATCTACGGAACTGACCAAAGTCACTCAGGATTCCTGGCACAAGCC
ACTCAGTAGCTGAGGAACGTATTGAAATGTAAGAACTGTTGAGCTTTTGGGAAAGAAATGACTGAAA
TCGAGAAATATGCCAGCAAAGTGGACCATGTAATGCAGTTAGCAAGGAAAGAGGCATTGCCCCGGGCTGG
TTTCTTTGGAGCAACTGGGCTCTCCGAAACCTGATCGTGCTTTCTGTCTGTACAAAGGAGGGCTGCTG
ATGGGCAGTGCCACATGACCGTGGTGAACCTCTTCTTCTAATGTATGCTTTCTGGGTTGGAATAA
GCATTGGAGTCTGAGCTTTTCTACTCGGAGCTGATGAAAGGACTGGGTGCAGGGGGGCGCCTCTGGGA
GCTCCTGGAGAGAGACCAAGCTGCCTTTTAAACGAGGGGTGATCTTAATGAGAAAAGCTTCCAGGGT
GCTTTGGAGTTTAAAGAACGTGCATTTTGCCTATCCAGCTCGCCAGAGGTGCCATATTTTCAAGATTCA
GCCTTTCCATTCCGTCAGGATCTGTACGGCACTGGTTGGCCAAAGTGGTTCTGGCAAATCAACAGTGCT
TTCCTCTGCTGAGGTTGTACGACCTGCTTCTGGAACATTAGTCTTGATGGCCATGACATCCGTCAG
CTAAACCCAGTGTGGCTGAGATCCAAAATTGGGACAGTGAGTCAGGAACCCATTTTGTCTTCTGCTCTA
TTGCTGAGAACATTGCTTATGGTGTGATGACCCTTCTCTGTGACCGCTGAGGAAATCCAGAGAGTGGC
TGAAGTGGCAATGCAGTGGCCTTCATCCGGAATTTCCCAAGGGTTCAACACTGTGGTTGGAGAAAAG
GGTGTCTCCTCTCAGGTGGGCAGAAACAGCGGATTGCGATTGCCCGTCTCTGCTAAAGAATCCCAAAA
TTCTTCTCCTAGATGAAGCAACCAAGTGCCTGGATGCCGAAAATGAGTACCTTGTCAAGAAGCTCTAGA
TCGACTGATGGATGGAAGAACGGTGTAGTTATTGCCATCGTCTGTCCACCATTAAGAATGCTAATATG
GTTGCTGTTCTTGACCAAGGAAAATTAAGTGAATATGAAAACATGAAGAGCTGCTTTCAAACCAAAATG
GGATATACAGAAAATAATGAACAAACAAAGTTTTATTTCAGCATAA
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_012089 unedited  
 AGGCGGTACCGATTTTGTAAATACCACTTATCTATAGGGCGGCACGGAACCTTCGGCACGAG  
 GCAAGGTCCGGTTAGCTGCAGTCCCCGGTGTGGGGCGGAGAGGCGCGCACCCGCGCGGAC  
 GAGGATGGGGCGGGGGCGGGCGCAGCCCAGGGTGCAGGCACGATAAGGCCGGGTGACAGC  
 CAGCGGGGAGGGGCGGGCGCCACCGCTCCACGCCCTTGTCTCGGGGCCGGGCCGGGAGG  
 GTCCTCGGGCTTTGCGCGCGCTGGCCGGCGGGCTGAGGCGTACGGTTCGCACGCAGCGC  
 CATGCGAGGCCCCCTGCCTGGCCGCTGCGGCTGCTCGAGCCACCGAGCCCTGCCGAGCC  
 AGGTCCGGCTCCTGCCGGTAGCCTGCGTGTGGGCGCGGCCAGCCGCTTCCCGGGTCCCT  
 ATCGCCGTTCACTGGCCTGAGGCCGCGCGGCTATGGGGCGCGGGGCCCGCGCTGCTCTG  
 GGGCGTTGGAGCCGCGCGCCGCTGGAGGAGCGGCTGCCGGGGCGGGGGTCCGGGCGCCTC  
 GCGGGGCGTCTGGGCTCGCGCGGCTCCTGGGCTGTGGGCTCGCGGCCCGGCAGCTG  
 CAGGTGCGGGGCTTTGCCGGGCCAGGCGCTCCTCGGCTCCCGCGCGCCCGTTCCCGGG  
 CGGTCCCAGCCGCTGCCTGGCAGGGGACGAGGCTGGCGGCGGGCCGGCGCGCC  
 TCCCGGGACAAGGGCGGCTGCGCCCCGAGCGCCGGACTCCCGGAGGCCCGGAGCT  
 CCTGGGGTGGCGTACCCTGAGCGCCTNAGGCTGGCAGCTGCGGNTGGATTTCTCACGAT  
 GTCCAGTGTATCTCCATGTCTGCCCTTCTTCTGGGAAGATCTTGATGTCATCTATA  
 CAACCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_012089 unedited  
 TCTGGACCGCGGCACGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTAAAGTTCACTA  
 TAAATTTAATCTATGATATAAAAATTACCTAAAGATAAAAATTGAACATCACTGTACTCA  
 GAAAATAAACATAACAATGAAATGCAATTTTCGTAATACTTCTATGGCACAAGGATTAT  
 TTTCTCAGATTAACCTTGTAATTGTGTGTTTGTCTTCTGAAAATCACACTTTATAAA  
 GAACACAAGTAGAGCTTGTTAAAAATGATTGTCACAGATGACTGTTTACTAATTCAAAG  
 AACACTATATTCATTCATATCAATTTTATTCAATTAATTGAACAATAAAAATATAATATT  
 CCATGCTTTTCATGAAATAGTGGTTTCTTCTCCAGTCTAATCAGGGAACATAAATATGC  
 TTAGTTCATGGGAAAACCTCCATTTGATTTACATTGACTTAATTACTTCTAGGGTCTAG  
 CCTCATCCATGGAGAAAAGGCACCTTTTCTTGGAGCAACAGCAAATTAACAGCACTGATA  
 CCAAAAATGGCAAATCAATGGTCTGTACCATTGCTTTAAGAATTTCCGCCACTATCAAT  
 CNAACCTTTACCGTAACCCAAAGGGGCTTTATTTATTACCCCTTTCCGGAAAAGGGAA  
 ACATTTCTAAAGTCTCCCGCTTTCTGTGCGCCACTTTATGCCTTCTTCCATCCAGCC  
 CCCGAAGGCTCGCCACTCCCCCTCATTCCCTCACATTTTACCCTTTCCATCGCACTCCC  
 ACATTGCTACACAGTCGCGGCCATTCTGGCGGGACTTTTCCATTGTGTCGACAGGC  
 CGCCACGAGCCGCTCCTCGTATCTGCTTGGGGGTACGCGCCGCTCCCAAATCCTACCCG  
 CGCCACCGCGTGCAGCCCGCCCGCCCCCTCCACCCTACCTTTGCACCCCCCGCGC  
 TTTGTCTCCACGTCTGTGCTCGCGCCACCGACTGTTGCGCTCCTCCCTCCACCCA  
 CCTCATAGTATT

**Restriction Sites:**

ECoRI-NOT

**ACCN:**

NM\_012089

**Insert Size:**

4110 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012089.1</a> , <a href="#">NP_036221.1</a>
<b>RefSeq Size:</b>	3857 bp
<b>RefSeq ORF:</b>	2217 bp
<b>Locus ID:</b>	23456
<b>UniProt ID:</b>	<a href="#">Q9NRK6</a>
<b>Cytogenetics:</b>	1q42.13
<b>Domains:</b>	ABC_membrane, ABC_tran, AAA
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	ABC transporters
<b>Gene Summary:</b>	<p>The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The function of this mitochondrial protein is unknown. [provided by RefSeq, Jul 2008]</p>