

## Product datasheet for **SC316596**

### ABCB11 (NM\_003742) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ABCB11 (NM\_003742) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ABCB11  
**Synonyms:** ABC16; BRIC2; BSEP; PFIC-2; PFIC2; PGY4; SPGP  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL4](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_003742 edited  
 ATGTCTGACTCAGTAATTCTTCGAAGTATAAAGAAATTTGGAGAGGAGAATGATGGTTTT  
 GAGTCAGATAAAATCATATAATAATGATAAAGAAATCAAGGTTACAAGATGAGAAGAAAGGT  
 GATGGCGTTAGAGTTGGCTTCTTTCAATTGTTTTCGGTTTTCTTCATCAACTGACATTTGG  
 CTGATGTTTTGTGGGAAGTTGTGTGCATTTCTCCATGGAATAGCCAGCCAGGCGTGCTA  
 CTCATTTTTGGCACAATGACAGATGTTTTTATTGACTACGACGTTGAGTTACAAGAACTC  
 CAGATTCAGGAAAAGCATGTGTGAATAACACCATTTGTATGGACTAACAGTTCCCTCAAC  
 CAGAACATGACAAATGGAACACGTTGTGGGTTGCTGAACATCGAGAGCGAAATGATCAAA  
 TTTGCCAGTTACTATGCTGGAATTGCTGTCGCAGTACTTATCACAGGATATATTCAAATA  
 TGCTTTTTGGGTCATTGCCGAGCTCGTCAGATACAGAAAATGAGAAAATTTACTTTAGG  
 AGAATAATGAGAATGAAATAGGGTGGTTTACTGCAATTCAGTGGGGGAGCTGAATACA  
 AGATTCTCTGATGATTAATAAAATCAATGATGCCATAGCTGACCAAATGGCCCTTTTC  
 ATTCAGCGCATGACCTCGACCATCTGTGGTTTCCTGTTGGGATTTTTAGGGGTTGGAAA  
 CTGACCTTGGTTATTTCTGTGAGCCCTCTCATTGGGATTGGAGCAGCCACCATTGGT  
 CTGAGTGTGTCCAAGTTTACGGACTATGAGCTGAAGGCCATGCCAAAGCAGGGGTGGTG  
 GCTGATGAAGTCATTTCAATGAGAACAGTGGCTGCTTTTGGTGGTGAAGAAAGAGAG  
 GTTGAAAGGTATGAGAAAAATCTGTGTTGCGCCAGCGTTGGGGAATTAGAAAAGGAATA  
 GTGATGGGATTTACTGGATTCTGTGGTGTCTCATCTTTTTGTGTTATGCACTGGCC  
 TTCTGGTACGGCTCCACACTTGTCTGGATGAAGGAGAATATACACCAGGAACCTTGTC  
 CAGATTTTCTCAGTGTATAGTAGGAGCTTTAAATCTTGCAATGCCTCTCCTTGTGTTG  
 GAAGCCTTTGCAACTGGACGTGCAGCAGCCACCAGCATTTTTGAGACAATAGACAGGAAA  
 CCCATCATTGACTGCATGTGAGAAGATGGTTACAAGTTGGATCGAATCAAGGGTGAATTT  
 GAATTTTATAATGTGACCTTCCATTATCCTTCCAGACCAGAGGTGAAGATTCTAAATGAC  
 CTCAACATGGTCATTAACCCAGGGGAAATGACAGCTCTGGTAGGACCCAGTGGAGCTGGA  
 AAAAGTACAGCACTGCAACTCATTGAGCGATTCTATGACCCTGTGAAGGAATGGTGACC  
 GTGGATGGCCATGACATTCGCTCTTTAACATTGAGTGGCTTAGAGATCAGATTTGGGATA  
 GTGGAGCAAGAGCCAGTTCTGTTCTCTACCACCATTGCAGAAAATATTCGCTATGGCAGA



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GAAGATGCAACAATGGAAGACATAGTCCAAGCTGCCAAGGAGGCCAATGCCTACAACCTC  
 ATCATGGACCTGCCACAGCAATTTGACACCCTTGTGGAGAAGGAGGAGGCCAGATGAGT  
 GGTGGCCAGAAACAAAGGGTAGCTATCGCCAGAGCCCTCATCCGAAATCCCAAGATTCTG  
 CTTTTGGACATGGCCACCTCAGCTCTGGACAATGAGAGTGAAGCCATGGTGAAGAAGTG  
 CTGAGTAAGATTACAGCATGGGCACACAATCATTTCAGTTGCTCATCGCTTGTCTACGGTC  
 AGAGCTGCAGATACCATCATTGGTTTTGAACATGGCACTGCAGTGGAAAGAGGGACCCAT  
 GAAGAATTACTGGAAAGGAAAGGTGTTTACTTCACTCTAGTGACTTTGCAAAGCCAGGGA  
 AATCAAGCTCTTAATGAAGAGGACATAAAGGATGCAACTGAAGATGACATGCTTGCGAGG  
 ACCTTTAGCAGAGGGAGCTACCAGGATAGTTTAAGGGCTTCCATCCGGCAACGCTCCAAG  
 TCTCAGCTTTCTTACCTGGTGCACGAACCTCCATTAGCTGTTGTAGATCATAAGTCTACC  
 TATGAAGAAGATAGAAAGGACAAGGACATTCTGTGCAGGAAGAAGTTGAACCTGCCCA  
 GTTAGGAGGATTCTGAAATTCAGTGCTCCAGAATGGCCCTACATGCTGGTAGGGTCTGTG  
 GGTGCAGCTGTGAACGGGACAGTACACCCTTGTATGCCTTTTTATTAGCCAGATTCTT  
 GGGACTTTTTCAATTCCTGATAAAGAGGAACAAAGGTCACAGATCAATGGTGTGTGCCTA  
 CTTTTTGTAGCAATGGGCTGTGTATCTCTTTTACCCAATTTCTACAGGGATATGCCTTT  
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 GGGCAAGATATTGCCTGGTTTGTATGACCTCAGAAATAGCCCTGGAGCATTGACAACAAGA  
 CTTGCTACAGATGCTTCCAAGTTCAAGGGGCTGCCGGCTCTCAGATCGGGATGATAGTC  
 AATTCCTTCACTAACGTCACTGTGGCCATGATCATTGCCTTCTCCTTTAGCTGGAAGCTG  
 AGCCTGGTCATCTTGTGCTTCTTCCCCTTCTTGGCTTTATCAGGAGCCACACAGACCAGG  
 ATGTTGACAGGATTTGCCTCTCGAGATAAGCAGGCCCTGGAGATGGTGGGACAGATTACA  
 AATGAAGCCCTCAGTAACATCCGCACTGTTGCTGGAATTGGAAAGGAGAGCGGTTTCATT  
 GAAGACTTGAGACTGAGCTGGAGAAGCCCTTCAAGACAGCCATTCAGAAAGCCAATTT  
 TACGGATTCTGCTTTGCCTTTGCCAGTGCATCATGTTTATTGCGAATTCTGCTTCTAC  
 AGATATGGAGGTTACTTAATCTCCAATGAGGGGCTCCATTTAGCTATGTGTTACGGGTG  
 ATCTCTGCAGTTGACTGAGTGCAACAGCTCTTGGAAAGAGCCTTCTTTACACCCCAAGT  
 TATGCAAAAGCTAAAATATCAGCTGCACGCTTTTTTCACTGCTGGACCGACAACCCCA  
 ATCAGTGTATAACAATACTGCAGGTGAAAAATGGGACAACCTCCAGGGGAAGATTGATTTT  
 GTTGATTGTAATTTACATATCCTTCTCGACCTGACTCGCAAGTTCTGAATGGTCTCTCA  
 GTGTCGATTAGTCCAGGGCAGACACTGGCGTTTGTGGGAGCAGTGGATGTGGCAAAAGC  
 ACTAGCATTACAGCTGTTGGAACGTTTCTATGATCCTGATCAAGGGAAGGTGATGATAGAT  
 GGTGATGACAGCAAAAAAGTAAATGTCCAGTTCCTCCGCTCAAACATTGGAATTGTTCC  
 CAGGAACCAAGTGTGTTTGCCTGTAGCATAATGGACAATATCAAGTATGGAGACAACACC  
 AAAGAAATTTCCATGGAAAGAGTCATAGCAGCTGCAAAACAGGCTCAGCTGCATGATTTT  
 GTCATGTCACTCCAGAGAAATATGAAACTAACGTTGGGTCCCAGGGGTCTCAACTCTCT  
 AGAGGGGAGAAACAACGCATTGCTATTGCTCGGGCCATTGTACGAGATCCTAAAACTTG  
 CTAAGATGAAGCCACTTCTGCCTTAGACACAGAAAGTAAAAGACGGTGCAGGTTGCT  
 CTAGACAAAGCCAGAGAGGGTCGGACCTGCATTGTCATTGCCATCGCTTGTCCACCATC  
 CAGAACCGGATATCATTGCTGTCATGGCACAGGGGGTGGTATTGAAAAGGGGACCCAT  
 GAAGAACTGATGGCCAAAAAGGAGCCTACTACAACTAGTCACCACTGGATCCCCATC  
 AGTTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_003742  
**Insert Size:** 4800 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>It is not a variant. This clone may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain (<a href="http://www.epibio.com/item.asp?ID=435">http://www.epibio.com/item.asp?ID=435</a>) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene.</p>
<b>Components:</b>	<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>
<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_003742.2</a> , <a href="#">NP_003733.2</a>
<b>RefSeq Size:</b>	4775 bp
<b>RefSeq ORF:</b>	3966 bp
<b>Locus ID:</b>	8647
<b>UniProt ID:</b>	<a href="#">O95342</a>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	ABC transporters

**Gene Summary:**

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 protein encoded by this gene is the major canalicular bile salt export pump in man. Mutations in this gene cause a form of progressive familial intrahepatic cholestases which are a group of inherited disorders with severe cholestatic liver disease from early infancy. [provided by RefSeq, Jul 2008]