

Product datasheet for **SC308848**

ABCB4 (NM_018849) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB4 (NM_018849) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCB4
Synonyms:	ABC21; GBD1; ICP3; MDR2; MDR2/3; MDR3; PFIC-3; PGY3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308848 representing NM_018849. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATCTTGAGGCGGCAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGACTTTGAACTG
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AGGAACTTAAATGTAACATCTGAGGGAAATCATTGGTGTGGTGAAGTGCAGGAGCCGGTGTGTTTTCC
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AAAGAGGCCAACGCCTATGAGTTTATCATGAAATTACCACAGAAATTTGACACCCTGGTTGGAGAGAGA
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 ATCCAGAATGCAGACTTAATAGTGGTGTTCAGAATGGGAGAGTCAAGGAGCATGGCACGCATCAGCAG
 CTGCTGGCACAGAAAGGCATCTATTTTTCAATGGTCAAGTGTCCAGGCTGGGACACAGAACTT**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACT**CATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT**
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-MluI
Plasmid Map: □
ACCN: NM_018849
Insert Size: 3861 bp

OTI Disclaimer: 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.

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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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).

Reconstitution Method:

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: [NM_018849.2](#)

RefSeq Size: 3988 bp

RefSeq ORF: 3861 bp

Locus ID: 5244

UniProt ID: [P21439](#)

Cytogenetics: 7q21.12

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

MW: 141.5 kDa

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 as well as antigen presentation. This gene encodes a full transporter and member of the p-glycoprotein family of membrane proteins with phosphatidylcholine as its substrate. The function of this protein has not yet been determined; however, it may involve transport of phospholipids from liver hepatocytes into bile. Alternative splicing of this gene results in several products of undetermined function. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (B) uses an alternate in-frame splice site in the 3' coding region, compared to variant A, resulting in a longer protein (isoform B).