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Product datasheet for SC308849

ABCB4 (NM_018850) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: ABCB4 (NM_018850) Human Untagged Clone

Tag: Tag Free

Symbol: ABCB4

Synonyms: ABC21; GBD1; ICP3; MDR2; MDR2/3; MDR3; PFIC-3; PGY3

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_018850, the custom clone sequence may differ by one or more nucleotides

ATGGATCTTGAGGCGGCAAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGAC
TTTGAACTGGGCATCAGCAGCAAACAAAAAAGGAAAAAAACGAAGACAGTGAAAATGATT
GGAGTATTAACATTGTTTCGATACTCCGATTGGCAGGATAAATTGTTTATGTCGCTGGGT
ACCATCATGGCCATAGCTCACGGATCAGGTCTCCCCCTCATGATGATAGTATTTGGAGAG
ATGACTGACAAATTTGTTGATACTGCAGGAAACTTCTCCTTTCCAGTGAACTTTTCCTTG
TCGCTGCTAAATCCAGGCAAAATTCTGGAAGAAGAAATGACTAGATATGCATATTACTAC
TCAGGATTGGGTGCTGGAGTTCTTGTTGCTGCCTATATACAAGTTTCATTTTGGACTTTG
GCAGCTGGTCGACAGATCAGGAAAATTAGGCAGAAGTTTTTTCATGCTATTCTACGACAG
GAAATAGGATGGTTTGACATCAACGACACCACTGAACTCAATACGCGGCTAACAGATGAC
ATCTCCAAAATCAGTGAAGGAATTGGTGACAAGGTTGGAATGTTCTTTCAAGCAGTAGCC
ACGTTTTTTGCAGGATTCATAGTGGGATTCATCAGAGGATGGAAGCTCACCCTTGTGATA
ATGGCCATCAGCCCTATTCTAGGACTCTCTGCAGCCGTTTGGGCAAAGATACTCTCGGCA
TTTAGTGACAAAGAACTAGCTGCTTATGCAAAAGCAGGCGCCGTGGCAGAAGAGGCTCTG
GGGGCCATCAGGACTGTGATAGCTTTCGGGGGCCAGAACAAAGAGCTGGAAAGGTATCAG
AAACATTTAGAAAATGCCAAAGAGATTGGAATTAAAAAAGCTATTTCAGCAAACATTTCC
ATGGGTATTGCCTTCCTGTTAATATATGCATCATATGCACTGGCCTTCTGGTATGGATCC
ACTCTAGTCATATCAAAAGAATATACTATTGGAAATGCAATGACAGTTTTTTTTTCAATC
CTAATTGGAGCTTTCAGTGTTGGCCAGGCTGCCCCATGTATTGATGCTTTTGCCAATGCA
AGAGGAGCAGCATATGTGATCTTTGATATTATTGATAATAATCCTAAAATTGACAGTTTT
TCAGAGAGAGGACACAAACCAGACAGCATCAAAGGGAATTTGGAGTTCAATGATGTTCAC
TTTTCTTACCCTTCTCGAGCTAACGTCAAGATCTTGAAGGGCCTCAACCTGAAGGTGCAG
AGTGGGCAGACGGTGGCCCTGGTTGGAAGTAGTGGCTGTGGGAAGAGCACAACGGTCCAG
CTGATACAGAGGCTCTATGACCCTGATGAGGGCACAATTAACATTGATGGGCAGGATATT
AGGAACTTTAATGTAAACTATCTGAGGGAAATCATTGGTGTGGTGAGTCAGGAGCCGGTG
CTGTTTTCCACCACAATTGCTGAAAATATTTGTTATGGCCGTGGAAATGTAACCATGGAT
GAGATAAAGAAAGCTGTCAAAGAGGCCAACGCCTATGAGTTTATCATGAAATTACCACAG
AAATTTGACACCCTGGTTGGAGAGAGAGGGGCCCAGCTGAGTGGTGGGCAGAAGCAGAGG
ATCGCCATTGCACGTGCCCTGGTTCGCAACCCCAAGATCCTTCTGCTGGATGAGGCCACG
TCAGCATTGGACACAGAAAGTGAAGCTGAGGTACAGGCAGCTCTGGATAAGGCCAGAGAA

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GGCCGGACCACCATTGTGATAGCACACCGACTGTCTACGGTCCGAAATGCAGATGTCATC
GCTGGGTTTGAGGATGGAGTAATTGTGGAGCAAGGAAGCCACAGCGAACTGATGAAGAAG
GAAGGGGTGTACTTCAAACTTGTCAACATGCAGACATCAGGAAGCCAGATCCAGTCAGAA
GAATTTGAACTAAATGATGAAAAGGCTGCCACTAGAATGGCCCCAAATGGCTGGAAATCT
CGCCTATTTAGGCATTCTACTCAGAAAAACCTTAAAAATTCACAAATGTGTCAGAAGAGC
CTTGATGTGGAAACCGATGGACTTGAAGCAAATGTGCCACCAGTGTCCTTTCTGAAGGTC
CTGAAACTGAATAAAACAGAATGGCCCTACTTTGTCGTGGGAACAGTATGTGCCATTGCC
AATGGGGGGCTTCAGCCGGCATTTTCAGTCATATTCTCAGAGATCATAGCGATTTTTGGA
CCAGGCGATGATGCAGTGAAGCAGCAGAAGTGCAACATATTCTCTTTGATTTTCTTATTT
CTGGGAATTATTTCTTTTTTTACTTTCTTCCTTCAGGGTTTCACGTTTGGGAAAGCTGGC
GAGATCCTCACCAGAAGACTGCGGTCAATGGCTTTTAAAGCAATGCTAAGACAGGACATG
AGCTGGTTTGATGACCATAAAAACAGTACTGGTGCACTTTCTACAAGACTTGCCACAGAT
GCTGCCCAAGTCCAAGGAGCCACAGGAACCAGGTTGGCTTTAATTGCACAGAATATAGCT
AACCTTGGAACTGGTATTATCATATCATTTATCTACGGTTGGCAGTTAACCCTATTGCTA
TTAGCAGTTGTTCCAATTATTGCTGTGTCAGGAATTGTTGAAATGAAATTGTTGGCTGGA
AATGCCAAAAGAGATAAAAAAGAACTGGAAGCTGCTGGAAAGATTGCAACAGAGGCAATA
GAAAATATTAGGACAGTTGTGTCTTTGACCCAGGAAAGAAAATTTGAATCAATGTATGTT
GAAAAATTGTATGGACCTTACAGGGTGTTTTCTGCAATTGTATTTGGTGCAGTGGCTCTA
GGACATGCCAGTTCATTTGCTCCAGACTATGCTAAAGCTAAGCTGTCTGCAGCCCACTTA
TTCATGCTGTTTGAAAGACAACCTCTGATTGACAGCTACAGTGAAGAGGGGCTGAAGCCT
GATAAATTTGAAGGAAATATAACATTTAATGAAGTCGTGTTCAACTATCCCACCCGAGCA
AACGTGCCAGTGCTTCAGGGGCTGAGCCTGGAGGTGAAGAAAGGCCAGACACTAGCCCTG
GTGGGCAGCAGTGGCTGTGGGAAGAGCACGGTGGTCCAGCTCCTGGAGCGGTTCTACGAC
CCCTTGGCGGGGACAGTGCTTCTCGATGGTCAAGAAGCAAAGAAACTCAATGTCCAGTGG
CTCAGAGCTCAACTCGGAATCGTGTCTCAGGAGCCTATCCTATTTGACTGCAGCATTGCC
GAGAATATTGCCTATGGAGACAACAGCCGGGTTGTATCACAGGATGAAATTGTGAGTGCA
GCCAAAGCTGCCAACATACATCCTTTCATCGAGACGTTACCCCACAAATATGAAACAAGA
GTGGGAGATAAGGGGACTCAGCTCTCAGGAGGTCAAAAACAGAGGATTGCTATTGCCCGA
GCCCTCATCAGACAACCTCAAATCCTCCTGTTGGATGAAGCTACATCAGCTCTGGATACT
GAAAGTGAAAAGGTTGTCCAAGAAGCCCTGGACAAAGCCAGAGAAGGCCGCACCTGCATT
GTGATTGCTCACCGCCTGTCCACCATCCAGAATGCAGACTTAATAGTGGTGTTTCAGAAT
GGGAGAGTCAAGGAGCATGGCACGCATCAGCAGCTGCTGGCACAGAAAGGCATCTATTTT
TCAATGGTCAGTGTCCAGGCTGGGACACAGAACTTATGA

Restriction Sites: Please inquire

ACCN: NM_018850

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).

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_018850.1, NP_061338.1
RefSeq Size:	5623 bp
RefSeq ORF:	3699 bp
Locus ID:	5244
UniProt ID:	P21439
Cytogenetics:	7q21.12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	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 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 (C) lacks an alternate in-frame exon, compared to variant A, resulting in a shorter protein (isoform C). CCDS Note: This CCDS ID represents variant C of the ABCB4 gene, which is based on experimental evidence described in PMID:2892668.