

Product datasheet for **SC304733**

ABCC9 (NM_020297) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ABCC9 (NM_020297) Human Untagged Clone
Tag: Tag Free
Symbol: ABCC9
Synonyms: ABC37; ATFB12; CANTU; CMD10; SUR2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_020297 edited
GGCACGAGCTCAAGTGCACCGGCGGGTTTGAAGCAGCGTGAAGCTATTGCCCAAGATG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020297 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_020297 unedited
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 TGTAAAAGAAGTGGGTGGAGAGGTGGGATACTCTTAGATTTTT

Restriction Sites:

Please inquire

ACCN:

NM_020297

Insert Size:

8500 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<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:	NM_020297.1 , NP_064693.1
RefSeq Size:	4650 bp
RefSeq ORF:	4650 bp
Locus ID:	10060
UniProt ID:	O60706
Cytogenetics:	12p12.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters

Gene Summary:

The 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 MRP subfamily which is involved in multi-drug resistance. This protein is thought to form ATP-sensitive potassium channels in cardiac, skeletal, and vascular and non-vascular smooth muscle. Protein structure suggests a role as the drug-binding channel-modulating subunit of the extra-pancreatic ATP-sensitive potassium channels. Mutations in this gene are associated with cardiomyopathy dilated type 1O. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2011]

Transcript Variant: This variant (SUR2B) uses an alternate 3' coding exon (exon 38B), compared to variant SUR2A, which uses exon 38A. The encoded isoform (SUR2B) has an alternate 38-amino acid C-terminus, but is the same length as isoform SUR2A. There are no full-length transcripts representing this variant in human; it is supported by partial transcript alignments, by full-length transcript alignments from the homologous mouse and rat genes, and by RT-PCR analysis in PMID:11054556. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.