

Product datasheet for **SC316627**

ABCC9 (NM_005691) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCC9 (NM_005691) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCC9
Synonyms:	ABC37; ATFB12; CANTU; CMD10; SUR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005691, the custom clone sequence may differ by one or more nucleotides

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ATGAGCCTTTCATTTTGTGGTAACAACATTTCTTCATATAATATCAACGATGGTGTACTACAAAATTCCT
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ACTCTCCATCTTCATGAATGCAGCAATCCCATAGCAGCTGTTCTTGCTACATTTGTGACCCATGCGTAT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005691 unedited
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 TTTTCATGAATCCTCAGAAAGTAAAGCCTCTGAAGAACCTCAGGATTCTGGGAGGTGGAGA
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005691 unedited
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 CATCACCAAAAGTGGAAAAGAGGCCATTCTTGTGGGCGAGCAAATTTGGGACAGTACACA
 CTCCACTAAAATACCCTCAGAAAAGACTAAAACAAGGCCCTGCATCCATAATAGAAGAGAC
 ACGGTGAGCTATTGTCACCACGGTCCGGTCTGCAAAGGCTGTCATTACTACTTTTTTGCAA
 AATATTCTCTGTGGCCATGTCAATGGAAGCTGTTGCCTCATCCATAATAAGAATGCTGCT
 TTTGCGGACAAAAGGCCCTGGCAAGGCAAATAGCTGTCTCTGTCCAACGCTAAAATTTCTC
 CCCACCTTCAGTGACAACCGCATCTAGACCTCCAGGTAGAGATTTGACCATATTCTTCAG
 CTGAGCAATTTCTAAGGCTTCCCAGAGTCTGTCACTGTGCATTTGCACTCTGGATCTAA
 ATTAAATCTAATGGAACCACTGAATAGTATTGGATCCTGCAGAATGATTGAAAGTCTAGA
 ACGTAGTGTGTGCAGTGGTAATTTGAAATGTCTATCCCATCAATGACAATTTTCCATC
 AAATATATCAACCATTCTGAAGAAAGCCAGAGATAACGATGATTTCCCACTGCCAGTGCG
 ACCACATATGCCACCTTTTGTCCAGGTTTGTGTAAGCCTTGACGTGCTTAAGAACAGG
 TTTTCAGATTATTTTCATATCTGACACACAGATCATGTATCTTGATCTCCCTTCTTGTGGC
 CAATGTTCTGAACTTGAGAAGGATCCATTTGTGCCTTTTCATAGTTCTTCTGACTCCATA
 GTTCAGGGAAACTGTTACCTTCTTTCCATGCACCCAA

Restriction Sites:

Please inquire

ACCN:

NM_005691

Insert Size:

4900 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_005691.2](#), [NP_005682.2](#)

RefSeq Size: 4670 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 (SUR2A) uses an alternate 3' coding exon (exon 38A), compared to variant SUR2B, which uses exon 38B. The encoded isoform (SUR2A) has an alternate 38-amino acid C-terminus, but is the same length as isoform SUR2B. 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.