

## Product datasheet for **SC117061**

### **ABCG1 (NM\_004915) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCG1 (NM_004915) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCG1
Synonyms:	ABC8; WHITE1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004915, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTGTCTGATGGCCGCTTCTCGGTCCGCCACCCCATGAATGCCAGCAGTTACTCTGCAGAGATGA
CGGAGCCCAAGTCGGTGTGTCTCGGTGGATGAGGTGGTGTCCAGCAACATGGAGGCCACTGAGACGGA
CCTGCTGAATGGACATCTGAAAAAGTAGATAATAACCTCACGGAAGCCAGCGTTCTCCTCCTTGCCT
CGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTTCCTATTCCGGTTCCTGAAGGACCCTGGTGGAGGA
AGAAAGGATACAAGACCCTCCTGAAAGGAATTTCCGGGAAGTTCAATAGTGGTGAGTTGGTGCCATTAT
GGTCTTCCGGGGCCGGGAAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGGGCATGAAG
GGGGCCGTCTCATCAACGGCCTGCCCCGGGACCTGCGCTGCTTCCGGAAGGTGCTCTGCTACATCATGC
AGGATGACATGCTGCTGCCGCATCTCACTGTGCAGGAGGCCATGATGGTGTCCGACATCTGAAGCTTCA
GGAGAAGGATGAAGGCAGAAGGGAAATGGTCAAGGAGATACTGACAGCGCTGGGCTTGTGTCTTGGCC
AACACGGGACCCGGGAGCCTGTCAGGTGGTCAGCGCAAGCGCCTGGCCATCGCGTGGAGCTGGTGAACA
ACCCTCCAGTCATGTTCTTCGATGAGCCCACCAGCGGCCTGGACAGCGCCTCCTGCTCCAGGTGGTCTC
GCTGATGAAAGGGCTCGCTCAAGGGGGTCCATCATTTCACCATCCACCAGCCAGCGCCAAACTC
TTCGAGCTGTTCCAGCAGCTTACGTCTGAGTCAAGGACAATGTGTGTACCGGGGAAAAGTCTGCAATC
TTGTGCCATATTTGAGGGATTTGGGTCTGAACTGCCAACCTACCACAACCCAGCAGATTTTGTGATGGA
GGTTGCATCCGGCGAGTACGGTGTGATCAGAACAGTCGGCTGGTGGAGCGGTTCCGGGAGGGCATGTGTGAC
TCAGACCACAAGAGAGACCTCGGGGGTGTGCCGAGGTGAACCTTTTCTTTGGCACCGGCCCTCTGAAG
AGGTAAGCAGACAAAACGATTAAGGGGTTGAGAAAGGACTCCTCGTCCATGGAAGGCTGCCACAGCTT
CTCTGCCAGCTGCCTCACGCAGTTCTGCATCCTTTCAAGAGGACCTTCTCAGCATCATGAGGGACTCG
GTCCTGACACACCTGCGCATCACCTCGCACATTGGGATCGGCCTCCTCATTGGCCTGCTGACTTGGGGA
TCGGGAACGAAGCCAAGAAGGTCTTGAGCAACTCCGGCTTCTCTTCTCCATGCTGTTCTCATGTT
CGCGGCCCTCATGCCTACTGTTCTGACATTTCCCTGGAGATGGGAGTCTTTCTTCCGGAACACCTGAAC
TACTGGTACAGCCTGAAGGCCTACTACCTGGCCAAGACCATGGCAGACGTGCCCTTTCAGATCATGTTCC
CAGTGGCCTACTGCAGCATCGTGTACTGGATGACGTCCGAGCCGTCCGACGCCGTGCGCTTGTGCTGTT
TGCCGCGCTGGGCACCATGACCTCCCTGGTGGCACAGTCCCTGGGCTGCTGATCGGAGCCGCTCCACG
TCCCTGCAGGTGGCCACTTTCGTGGGCCAGTGACAGCCATCCCGGTGCTCCTGTTCTCGGGTTCTTCG
TCAGCTTCGACACCATCCCACGTACCTACAGTGGATGTCCTACATCTCCTATGTCAGGTATGGGTTGGA
AGGGGTATCCTCTCCATCTATGGCTTAGACCGGGAAGATCTGCACTGTGACATCGACGAGACGTGCCAC
TTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGACGTGGAAAATGCCAAGCTGTACCTGGACTTCATCG
TACTCGGGATTTCTTCTCCTCCCTCCGCTCATTGCCTATTTTGTCTCAGGTACAAAATCCGGGCAGA
GAGGTAA
```



**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](mailto: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](#)

**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\\_004915.3](#), [NP\\_004906.3](#)

**RefSeq Size:** 3018 bp

**RefSeq ORF:** 2037 bp

**Locus ID:** 9619

**UniProt ID:** [P45844](#)

**Cytogenetics:** 21q22.3

**Domains:** ABC\_tran, AAA

**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 White subfamily. It is involved in macrophage cholesterol and phospholipids transport, and may regulate cellular lipid homeostasis in other cell types. Six alternative splice variants have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (4) differs in the 5' end-region compared to variant 1, which includes a part of the coding region. The resulting isoform (4) has a distinct and shorter N-terminus, as compared to isoform 1.