

Product datasheet for **SC308406**

ABCG1 (NM_207174) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCG1 (NM_207174) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCG1
Synonyms:	ABC8; WHITE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC308406 representing NM_207174.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGCATTTCCTCCCGAGCTCCGGAGAGGGATGGCGGGTGTGGCGAGTTCACTGCTGGACACA
GTACTAATGCCAGCAGTTACTCTGCAGAGATGACGGAGCCCAAGTCGGTGTGTCTCGTGGATGAG
GTGGTGTCCAGCAACATGGAGGCCACTGAGACGGACCTGCTGAATGGACATCTGAAAAAAGTAGATAA
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CTTTCCTATTCGGTTCCTGAAGGACCCTGGTGGAGGAAGAAAGGATACAAGACCCTCTGAAAGGAATT
TCCGGGAAGTTCAATAGTGGTGAAGTGGTGGCCATTATGGGTCTTCCGGGGCCGGGAAGTCCACGCTG
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CCCACCAGCGGCCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTCGCTGATGAAAGGGCTCGCTCAAGGG
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CTGATCGGAGCCCTCCAGTCCCTGCAGGTGGCCACTTTCGTGGGCCAGTGACGCCATCCCGGTG
CTCCTGTTCTCGGGTCTTCTGTCAGCTTCGACACCATCCCACGTACCTACAGTGGATGCTCTACATC
TCCTATGTCAGGTATGGGTTTCAAGGGGTATCCTCTCCATCTATGGCTTAGACCGGGAAGATCTGCAC
TGTGACATCGACGAGACGTGCCACTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGACGTGGAAAAT
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GTCCTCAGGTACAAAATCCGGGCAGAGAGGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_207174

Insert Size: 2034 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:	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:	<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_207174.1
RefSeq Size:	2983 bp
RefSeq ORF:	2034 bp
Locus ID:	9619
UniProt ID:	P45844
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	75.4 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' end-region compared to variant 1, which includes a part of the coding region. The resulting isoform (3) has a distinct and shorter N-terminus, as compared to isoform 1.</p>