OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC128150

ABCG1 (NM_016818) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCG1 (NM_016818) Human Untagged Clone
Tag:	Tag Free
Symbol:	ABCG1
Synonyms:	ABC8; WHITE1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_016818, the custom clone sequence may differ by one or more nucleotides

ATGGCCTGTCTGATGGCCGCTTTCTCGGTCGGCACCGCCATGAATGCCAGCAGTTACTCTGCAGAGATGA
CGGAGCCCAAGTCGGTGTGTGTCTCGGTGGATGAGGTGGTGTCCAGCAACATGGAGGCCACTGAGACGGA
CCTGCTGAATGGACATCTGAAAAAAGTAGATAATAACCTCACGGAAGCCCAGCGCTTCTCCTCCTTGCCT
CGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTTCCTATTCGGTTCCTGAAGGACCCTGGTGGAGGA
AGAAAGGATACAAGACCCTCCTGAAAGGAATTTCCGGGAAGTTCAATAGTGGTGAGTTGGTGGCCATTAT
GGGTCCTTCCGGGGCCGGGAAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGGGCATGAAG
GGGGCCGTCCTCATCAACGGCCTGCCCCGGGACCTGCGCTGCTTCCGGAAGGTGTCCTGCTACATCATGC
AGGATGACATGCTGCTGCCGCATCTCACTGTGCAGGAGGCCATGATGGTGTCGGCACATCTGAAGCTTCA
GGAGAAGGATGAAGGCAGAAGGGAAATGGTCAAGGAGATACTGACAGCGCTGGGCTTGCTGTCTTGCGCC
AACACGCGGACCGGGAGCCTGTCAGGTGGTCAGCGCAAGCGCCTGGCCATCGCGCTGGAGCTGGTGAACA
ACCCTCCAGTCATGTTCTTCGATGAGCCCACCAGCGGCCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTC
GCTGATGAAAGGGCTCGCTCAAGGGGGTCGCTCCATCATTTGCACCATCCACCAGCCCAGCGCCAAACTC
TTCGAGCTGTTCGACCAGCTTTACGTCCTGAGTCAAGGACAATGTGTGTACCGGGGAAAAGTCTGCAATC
TTGTGCCATATTTGAGGGATTTGGGTCTGAACTGCCCAACCTACCACAACCCAGCAGATTTTGTCATGGA
GGTTGCATCCGGCGAGTACGGTGATCAGAACAGTCGGCTGGTGAGAGCGGTTCGGGAGGGCATGTGTGAC
TCAGACCACAAGAGAGACCTCGGGGGTGATGCCGAGGTGAACCCTTTTCTTTGGCACCGGCCCTCTGAAG
AGGACTCCTCGTCCATGGAAGGCTGCCACAGCTTCTCTGCCAGCTGCCTCACGCAGTTCTGCATCCTCTT
CAAGAGGACCTTCCTCAGCATCATGAGGGACTCGGTCCTGACACACCTGCGCATCACCTCGCACATTGGG
ATCGGCCTCCTCATTGGCCTGCTGTACTTGGGGATCGGGAACGAAGCCAAGAAGGTCTTGAGCAACTCCG
GCTTCCTCTTCTTCTCCATGCTGTTCCTCATGTTCGCGGCCCTCATGCCTACTGTTCTGACATTTCCCCT
GGAGATGGGAGTCTTTCTTCGGGAACACCTGAACTACTGGTACAGCCTGAAGGCCTACTACCTGGCCAAG
ACCATGGCAGACGTGCCCTTTCAGATCATGTTCCCAGTGGCCTACTGCAGCATCGTGTACTGGATGACGT
CGCAGCCGTCCGACGCCGTGCGCTTTGTGCTGTTTGCCGCGCTGGGCACCATGACCTCCCTGGTGGCACA
GTCCCTGGGCCTGCTGATCGGAGCCGCCTCCACGTCCCTGCAGGTGGCCACTTTCGTGGGCCCAGTGACA
GCCATCCCGGTGCTCCTGTTCTCGGGGTTCTTCGTCAGCTTCGACACCATCCCCACGTACCTACAGTGGA
TGTCCTACATCTCCTATGTCAGGTATGGGTTCGAAGGGGTCATCCTCTCCATCTATGGCTTAGACCGGGA
AGATCTGCACTGTGACATCGACGAGACGTGCCACTTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGAC
GTGGAAAATGCCAAGCTGTACCTGGACTTCATCGTACTCGGGATTTTCTTCATCTCCCTCCGCCTCATTG
CCTATTTTGTCCTCAGGTACAAAATCCGGGCAGAGAGGTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016818 unedited
NAAGTTCGCTACCCTGGGAAGCCATCCAGCTGTTTTGACCTCCATANAAGAACCGGGACC
GATCCAGCCTCCGGACTCTAGCCTAGGCCGCGGGACGGATAACAATTTCACACAGGAAAC
AGCTATGACCATTAGGCCTATTTAGGTGACACTATAGAACAAGTTTGTACAAAAAAGCAG
GCTGGTACCGGTCCGGAATTCCCGGGATCGCACCCCGCGCAGCGGCTGAGCCGGGAGCCA
GCGCAGCCTCGGCCCCGCAGCTCAAGCCTCGTCCCCGCCGCCGCCGCCGCCGCCGCCGCC
CCCGGGGCATGGCCTGTCTGATGGCCGCTTTCTCGGTCGGCACCGCCATGAATGCCAGCA
GTTACTCTGCAGAGATGACGGAGCCCAAGTCGGTGTGTGTCTCGGTGGATGAGGTGGTGT
CCAGCAACATGGAGGCCACTGAGACGGACCTGCTGAATGGACATCTGANAAAAGTAGATA
ATAACCTCACGGAAGCCCAGCGCTTCTCCTCCTTGCCTCGGAGGGCAGCTGTGAACATTG
AATTCAGGGACCTTTCCTATTCGGTTCCTGAAGGACCCTGGTGGAGGAAGAAAGGATACA
AGACCCTCCTGANAGGAATTTCCGGGAAGTTCAATAGTGGTGAGTTGGTGGCCATTATGG
GTCCTTCCGGNGCCGGGGAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGG
GCATGAAGGGGGGCCGTCCTCATCAACGGCCTGCCCCGGGACCTGCGCTGCTTCCGAAAG
TGTCCTGCTACATCATGCANGATGACATGCTGCTGCCGCATCTCACTGTGCANGAAGCCA
TGATGGTGTCGGCACATCTGAAGCTTCNGNAGAAGGATGAAAGCNNAAAGGGGAATGGTC
AAGAAN

Restriction Sites:	Please inquire
ACCN:	NM_016818
Insert Size:	2200 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
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_016818.2, NP_058198.2
RefSeq Size:	2982 bp
RefSeq ORF:	2001 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 (2) differs in the 5' end-region compared to variant 1, which includes a part of the coding region. The resulting isoform (2) has a distinct and shorter N-terminus, as compared to isoform 1.