

## Product datasheet for **RC224089**

### **ABCG1 (NM\_207628) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCG1 (NM_207628) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCG1
Synonyms:	ABC8; WHITE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RC224089 representing NM\_207628  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTGTCTGATGGCCGCTTTCTCGGTCGGCACCGCCATGAATGCCAGCAGTTACTCTGCAGAGATGA  
 CGGAGCCCAAGTCGGTGTGTCTCGGTGGATGAGGTGGTGTCCAGCAACATGGAGGCCACTGAGACGGA  
 CCTGCTGAATGGACATCTGAAAAAGTAGATAATAACCTCACGGAAGCCAGCGCTTCTCCTCCTTGCT  
 CGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTTCCTATTCGGTTCCTGAAGGACCCTGGTGGAGGA  
 AGAAAGGATACAAGACCCTCCTGAAAGGAATTTCCGGGAAGTTCATAGTGGTGAAGTGGTGGCCATTAT  
 GGGTCTTCCGGGGCCGGGAAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGGGCATGAAG  
 GGGGCCGCTCATCAACGGCCTGCCCGGGACCTGCGCTGCTCCGGAAGGTGCTCTGCTACATCATGC  
 AGGATGACATGCTGCTGCCGCATCTCACTGTGCAGGAGGCCATGATGGTGTGGCACATCTGAAGCTTCA  
 GGAGAAGGATGAAGGCAGAAGGGAAATGGTCAAGGAGATACTGACAGCGCTGGGCTTGTGTCTTGGCC  
 AACACGGGACCGGGAGCCTGTCAGGTGGTCAGCGCAAGCGCCTGGCCATCGCGCTGGAGCTGGTGAACA  
 ACCCTCCAGTCATGTTCTTCGATGAGCCACCAGCGGCCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTC  
 GCTGATGAAAGGGCTCGCTCAAGGGGGTTCGCTCCATCATTTGCACCATCCACCAGCCAGCGCCAAACTC  
 TTCGAGCTGTTCCAGCAGCTTACGCTCCTGAGTCAAGGACAATGTGTGTACCGGGGAAAAGTCTGCAATC  
 TTGTGCCATATTTGAGGGATTTGGGTCTGAACTGCCAACCTACCACAACCCAGCAGATTTTGTGATGGA  
 GGTGTCATCCGGCGAGTACGGTATCAGAACAGTCGGCTGGTGGAGCGGTTCCGGAGGGCATGTGTGAC  
 TCAGACCACAAGAGACCTCGGGGTGATGCCGAGGTGAACCTTTTCTTTGGCACCGGCCCTCTGAAG  
 AGGACTCCTCGTCCATGGAAGGCTGCCACAGCTTCTCTGCCAGTGCCTCACGCAGTTCTGCATCCTCTT  
 CAAGAGGACCTTCTCAGCATCATGAGGGACTCGGTCTGACACACCTGCGCATCACCTCGCACATTGGG  
 ATCGGCCCTCCTCATTGGCCTGCTGACTTGGGGATCGGGAACGAAGCCAAGAAGGTCTTGAGCAACTCCG  
 GCTTCTCTTCTCCTCATGCTGTTCTCATGTTCCGCGCCCTCATGCCTACTGTTCTGACATTTCCCT  
 GGAGATGGGAGTCTTCTTCGGGAACACCTGAACTACTGGTACAGCCTGAAGGCCACTACCTGGCCAAG  
 ACCATGGCAGACGTGCCCTTTCAGATCATGTTCCAGTGGCCTACTGCAGCATCGTGTACTGGATGACGT  
 CGCAGCCGTCGACGCCGTGCGCTTTGTGCTGTTGCCGCGCTGGGCACCATGACCTCCCTGGTGGCACA  
 GTCCTGGGCTGCTGATCGGAGCCGCTCCACGTCCTGCAGGTGGCCACTTTCGTGGGCCAGTGACA  
 GCCATCCCGGTGCTCCTGTTCTCGGGTCTTTCGTGAGCTTCGACACCATCCCCACGTACCTACAGTGGA  
 TGTCTACATCTCCTATGTCAGGTATGGGTTCGAAGGGTTCATCCTCCTCATATGGCTTAGACCGGGA  
 AGATCTGCACTGTGACATCGACGAGACGTGCCACTTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGAC  
 GTGGAAAATGCCAAGCTGTACCTGGACTTCATCGTACTCGGGATTTTCTTCATCTCCCTCCGCTCATTG  
 CCTATTTGTCTCAGGTACAAAATCCGGGCAGAGAGG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC224089 representing NM\_207628  
 Red=Cloning site Green=Tags(s)

MACLMAAFSVGTAMNASSYAEMTEPKSVCVSVDEVVSSNMEATETDLLNGHLKKVDNNL TEAQRFS  
 RRAAVNIEFRDLSYVPEGPWWRKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNLAGYRETGMK  
 GAVLINGLPRDLRCFRKVSICYIMQDDMLLPHLTVQEAMVSAHLKLEKDEGRREMVKEILTALG  
 LLSCANTRTGSLSGGQRKRLAIALELVNPPVMFFDEPTSGLDSASCFQVVSMLKGLAQGGRSI  
 ICTIHQPSAKLFELFDQLYVLSQGQCVRGKVCNLVPYLRDLGLNCPTYHNPADFVMEVASGEYGD  
 QNSRLVRVREGMCDSDHKRDLGGDAEVPFLWHRPSEEDSSSMEGCHSFASCLTQFCILFKRTFL  
 SIMRDSVLTHLRITSHIGIGLLIGLLYLIGINEAKKVLNSGFLFFSMLFLMFAALMPTVLT  
 FPLEMGVFLREHLNYWYSLKAYYLAKTMADVPFQIMFPVAYCSIVYWMTSQPSDAVRVLF  
 AALGTMTSLVAQSLGLLIGAASLQVATFVGPVT AIPVLLFSGFFVSDTIPTYLQWMSYIS  
 YVRYGFEGVILSIYGLDREDLHCDIDETCHFQKSEAILRELDVENAKLYLDFIVLGIFFISL  
 RLIAFYVFLRYKIRAER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

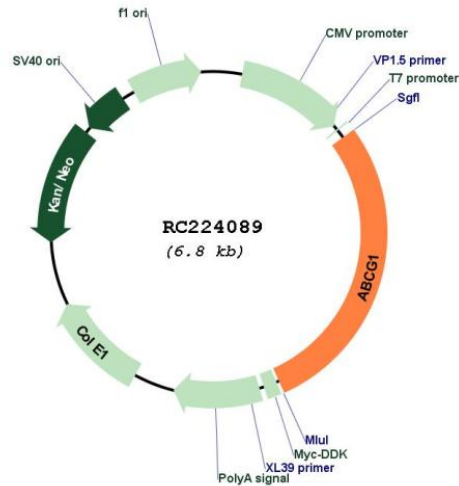
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_207628

ORF Size: 2001 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_207628.1](#), [NP\\_997511.1](#)

RefSeq Size:	3060 bp
RefSeq ORF:	1935 bp
Locus ID:	9619
UniProt ID:	<a href="#">P45844</a>
Cytogenetics:	21q22.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	74.2 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>