

## Product datasheet for **RG224089**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCG1 (NM_207628) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABCG1
Synonyms:	ABC8; WHITE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG224089 representing NM\_207628  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCCTGTCTGATGGCCGCTTTCTCGGTCCGCACCGCCATGAATGCCAGCAGTTACTCTGCAGAGATGA  
CGGAGCCCAAGTCGGTGTGTCTCGGTGGATGAGGTGGTGTCCAGCAACATGGAGGCCACTGAGACGGA  
CCTGCTGAATGGACATCTGAAAAAGTAGATAATAACCTCACGGAAGCCAGCGCTTCTCCTCCTTGCT  
CGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTTCCTATTCGGTTCCTGAAGGACCCTGGTGGAGGA  
AGAAAGGATACAAGACCCTCCTGAAAGGAATTTCCGGGAAGTCAATAGTGGTGAAGTGGTGGCCATTAT  
GGGTCTTCCGGGGCCGGGAAGTCCACGCTGATGAACATCCTGGCTGGATACAGGGAGACGGGCATGAAG  
GGGGCCGCTCCTCATCAACGGCCTGCCCGGGACCTGCGCTGCTCCGGAAGGTGCTCTGCTACATCATGC  
AGGATGACATGCTGCTGCCGCATCTCACTGTGCAGGAGGCCATGATGGTGTCCGCACATCTGAAGCTTCA  
GGAGAAGGATGAAGGCAGAAGGGAAATGGTCAAGGAGATACTGACAGCGCTGGGCTTGTGTCTTGGCC  
AACACGGGACCGGGAGCCTGTCAGGTGGTCAGCGCAAGCGCCTGGCCATCGCGCTGGAGCTGGTGAACA  
ACCCTCCAGTCATGTTCTTCGATGAGCCACCAGCGGCCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTC  
GCTGATGAAAGGGCTCGCTCAAGGGGGTTCGCTCCATCATTTGCACCATCCACCAGCCAGCGCCAAACTC  
TTCGAGCTGTTCCAGCAGCTTACGCTCCTGAGTCAAGGACAATGTGTGTACCGGGGAAAAGTCTGCAATC  
TTGTGCCATATTTGAGGGATTTGGGTCTGAACTGCCAACCTACCACAACCCAGCAGATTTTGTGATGGA  
GGTTGCATCCGGCGAGTACGGTATCAGAACAGTCGGCTGGTGAAGCGGTTCCGGAGGGCATGTGTGAC  
TCAGACCACAAGAGAGACCTCGGGGTGATGCCGAGGTGAACCTTTTCTTTGGCACCGGCCCTCTGAAG  
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CAAGAGGACCTTCTCAGCATCATGAGGGACTCGGTCTGACACACCTGCGCATCACCTCGCACATTGGG  
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GGAGATGGGAGTCTTCTTCGGGAACACCTGAACTACTGGTACAGCCTGAAGGCCACTACTCGGCAAG  
ACCATGGCAGACGTGCCCTTTCAGATCATGTTCCAGTGGCCTACTGCAGCATCGTGTACTGGATGACGT  
CGCAGCCGTCGACGCCGTGCGCTTTGTGCTGTTGCCGCGCTGGGCACCATGACCTCCCTGGTGGCACA  
GTCCTGGGCTGCTGATCGGAGCCGCTCCACGTCCTGCAGGTGGCCACTTTCGTGGGCCAGTGACA  
GCCATCCCGGTGCTCCTGTTCTCGGGTCTTTCGTGAGCTTCGACACCATCCCCACGTACCTACAGTGGA  
TGTCTACATCTCCTATGTCAGGTATGGGTTTCGAAGGGTTCATCCTCCTCATCTATGGCTTAGACCGGGA  
AGATCTGCACTGTGACATCGACGAGACGTGCCACTTCCAGAAGTCGGAGGCCATCCTGCGGGAGCTGGAC  
GTGGAAAATGCCAAGCTGTACCTGGACTTCATCGTACTCGGGATTTTCTTCATCTCCCTCCGCTCATTG  
CCTATTTTGTCTCAGGTACAAAATCCGGGCAGAGAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG224089 representing NM\_207628  
Red=Cloning site Green=Tags(s)

```

MACLMAAFSVGTAMNASSYSAEMTEPKSVCVSVDEVVSSNMEATETDLLNGHLKKVDNNL TEAQRFS SLP
RRAAVNIEFRDLSYVPEGPWRRKKGYKTLLKGI SGKFNSGELVAIMGPSGAGKSTLMNLAGYRETGMK
GAVLINGLPRDLRCFRKVSICYIMQDDMLLPHLTVQEAMMVAHLKLQEKDEGRREMVKEILTALGLL SCA
NTRTGSLSGGQRKRLAIALELVNPPVMFFDEPTSGLDSASCFQVVSLMKGLAQGGRSIICTIHQPSAKL
FELFDQLYVLSQGQCQVYRGKVCNLVPYLRDLGLNCPTYHNPADFVMEVASGEYGDQNSRLVRAVREGMCD
SDHKRDLGGDAEYNPFLWHRPSEEDSSSMEGCHSF SASCLTQFCILFKRTFLSIMRDSVLTHLRITSHIG
IGLLIGLLYLIGIGNEAKKVLNSGFLFFSMLFLMFAALMPTVLTFFLEMGVFLREHLNYWYSLKAYYLAK
TMADVPPQIMFPVAYCSIVYWMTSQPSDAVRVLF AALGTMTSLVAQSLGLLIGAASLQVATFVGPVT
AIPVLLFSGFFVSFDTIPTYLQWMSYISYVRYGFEGVILSIYGLDREDLHCDIDETCHFQKSEAILRELD
VENAKLYLDFIVLGIFFISLRLIAYFVLR YKIRAER
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**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:** [P45844](#)

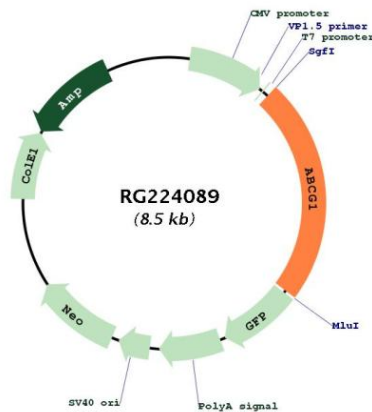
**Cytogenetics:** 21q22.3

**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]

### Product images:



Circular map for RG224089