

## Product datasheet for **RG215036**

### **ABCG1 (NM\_207174) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCG1 (NM_207174) 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:**

>RG215036 representing NM\_207174  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCATTTCACTTCCCGAGCTCCGGAGAGGGATGGCGGGTGTCCGGCGATTACTGCTGGACACAG  
 TTAATAATGCCAGCAGTTACTCTGCAGAGATGACGGAGCCCAAGTCGGTGTGTGCTCGGTGGATGAGGT  
 GGTGTCCAGCAACATGGAGGCCACTGAGACGGACCTGCTGAATGGACATCTGAAAAAAGTAGATAATAAC  
 CTCACGGAAGCCAGCGTTCTCCTCCTTGCCTCGGAGGGCAGCTGTGAACATTGAATTCAGGGACCTTT  
 CCTATTCGGTTCTGAAGGACCTGGTGGAGGAAGAAAGGATACAAGACCCTCCTGAAAGGAATTTCCGG  
 GAAGTTCAATAGTGGTGAAGTGGTGGCCATTATGGGTCTTCCGGGGCCGGAAGTCCACGCTGATGAAC  
 ATCCTGGCTGGATACAGGGAGACGGGCATGAAGGGGGCCGTCCTCATCAACGGCTGCCCGGGACCTGC  
 GCTGCTCCGGAAGGTGTCTGTACATCATGCAGGATGACATGCTGCTGCCGCATCTACTGTGCAGGA  
 GGCCATGATGGTGTCCGGACATCTGAAGCTTCAGGAGAAGGATGAAGGCAGAAGGGAAATGGTCAAGGAG  
 ATACTGACAGCGCTGGGCTTGTGTCTTGCGCCAACACGGCGACCGGGAGCCTGTGAGGTGGTCAAGCGCA  
 AGCGCCTGGCCATCGCGCTGGAGCTGGTGAACAACCTCCAGTCATGTTCTTCGATGAGCCACCAGCGG  
 CCTGGACAGCGCCTCCTGCTTCCAGGTGGTCTCGCTGATGAAAGGGCTCGCTCAAGGGGGTTCGCTCCATC  
 ATTTGCACCATCCACCAGCCAGCGCCAAACTCTTCGAGCTGTTCCGACCGCTTTACGCTCCTGAGTCAAG  
 GACAATGTGTGTACCGGGGAAAAGTCTGCAATCTTGTGCCATATTTGAGGGATTTGGGTCTGAACTGCC  
 AACCTACCACAACCCAGCAGATTTTGTGATGGAGTTCATCCGGCGAGTACGGTGTGATCAGAACAGTCGG  
 CTGGTGAGAGCGGTTCCGGAGGGCATGTGTGACTCAGACCACAAGAGAGACCTCGGGGGTGTGCCGAGG  
 TGAACCTTTTCTTTGGCACCGCCCTCTGAAGAGGACTCCTCGTCCATGGAAGGCTGCCACAGCTTCTC  
 TGCCAGCTGCCTCAGCAGTTCTGCATCCTCTTCAAGAGGACCTTCTCAGCATCATGAGGGACTCGGTC  
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 GGCCCTCATGCCTACTGTTCTGACATTTCCCTGGAGATGGGAGTCTTTCTTCGGGAACACCTGAACTAC  
 TGGTACAGCCTGAAGGCCTACTACCTGGCCAAGACCATGGCAGACGTGCCCTTTCAGATCATGTTCCAG  
 TGGCCTACTGCAGCATCGTGTACTGGATGACGTCGCAGCCGTCGACGCCGTGCGCTTTGTGCTGTTTGC  
 CGCGCTGGGCACCATGACCTCCCTGGTGGCACAGTCCCTGGGCCCTGCTGATCGGAGCCGCTCCACGTCC  
 CTGCAGGTGGCCACTTTCGTGGGCCAGTGACAGCCATCCGGTGTCTCTGTTCTCGGGGTCTTTCGTCA  
 GCTTCGACACCATCCCCAGTACCTACAGTGGATGTCCTACATCTCCTATGTCAGGTATGGTTCGAAGG  
 GGTCACTCCTCCATCTATGGCTTAGACCGGGAAGATCTGCACTGTGACATCGACGAGACGTGCCACTTC  
 CAGAAGTCGGAGGCCATCCTGCGGGAGCTGGACGTGAAAATGCCAAGCTGTACCTGGACTTCATCGTAC  
 TCGGGATTTTCTTCATCTCCCTCCGCTCATTGCCTATTTTGTCTCAGGTACAAAATCCGGGCAGAGAG  
 G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG215036 representing NM\_207174  
Red=Cloning site Green=Tags(s)

```

MRISLPRAPERDGGVSASSLLDVTNASSYSAEMTEPKSVCVSVDEVVSSNMEATETDLLNGHLKKVDNN
L TEAQRFFSSLPRRAAVNIEFRDLSYSVPEGPWWRKKGYKTLKGI SGKFNSGELVAIMGPSGAGKSTLMN
ILAGYRETGMKGAVLINGLPRDLRCFRKVCYIMQDDMLLPHLTVQEAMMVS AHLKLQEKDEGRREMVKE
ILTALGLLSCANTRTGSLSGGQRKRLAIALELVNNPPVMFFDEPTSGLDSASCFQVVS LMKGLAQGGRSI
ICTIHQPSAKLFELFDQLYVLSQGCQVYRGKVCNLVPYLRDLGLNCP TYHNPADFVMEVASGEYGDQNSR
LVRAVREGMCDSDHKRDLGGDAEVNPF LWHRPSEEDSSMEGCHSF SASCLTQFCILFKRTFLS IMRDSV
LTHLRITSHIGIGLLIGLLYLIGI NEAKKVLNSNGFLFFSMLFLMFAALMPTVLT FPLEMGVFLREHLNY
WYSLKAYYLAKTMADVPFQIMFPVAYCSIVYWMTSQPSDAVRFVLF AALGTMTSLVAQSLG LLIGAASTS
LQVATFVGPVTAIPVLLFSGFFV SFDTIPTYLQWMSYISYVRYGFEGVILSIYGLDREDLHCDIDETCHF
QKSEAILRELDVENAKLYLDFIVLGIFFISLR LIAFYFLRYKIRAER
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_207174

**ORF Size:** 2031 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\\_207174.1](#), [NP\\_997057.1](#)

**RefSeq Size:** 2983 bp

**RefSeq ORF:** 2034 bp

**Locus ID:** 9619

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

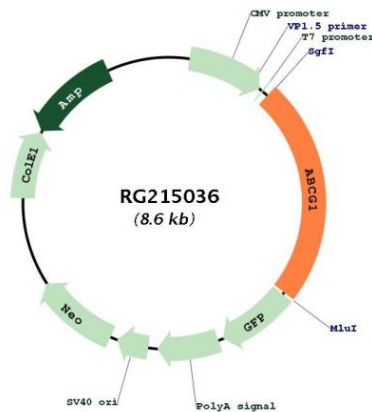
**Cytogenetics:** 21q22.3

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters

**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 RG215036