

## Product datasheet for **MG227241**

### **Abcg1 (NM\_009593) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcg1 (NM_009593) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Abcg1
Synonyms:	Abc; Abc8; AW413978; Whit; White
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227241 representing NM\_009593  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTGTCTGATGGCCGCTTTCTCGGTGCGCACCGCCATGAATGCCAGCAGCTACTCTGCCGCAATGA  
 CGGAGCCCAAGTCCGTGTGCGTGTGAGTGGACGAGGTCGTGTCCAGCAAGTGGATGAGGTTGAGACAGA  
 CCTGCTCAATGGGCACCTGAAGAAGGTGGACAACAACCTCACAGAGGCCAGCGCTTTCTCCCTCCG  
 CGGAGGGCGGCCGTGAACATCGAATTCAAGGACCTTTCTACTCTGTACCCGAGGGGCCCTGGTGAAGA  
 AGAAAGGATACAAGACCTTTTGAAGGGATCTCTGGGAAATCAACAGTGGAGAGCTGGTGGCCATCAT  
 GGGTCTTCTGGAGCTGGGAAGTCCACACTCATGAATATTCTGGCAGGATACAGGGAGACTGGCATGAAA  
 GGGGCAGTCTTATCAATGGAATGCCCCGGGACCTGCGTGTCCGGAAGGTCTCTGCTACATCATGC  
 AGGACGACATGCTGCTGCCTCACCTCACTGTTCCAGGAGCCATGATGGTGTCCGCGCATCTGAAGCTGCA  
 GGAGAAGGATGAAGGCAGACGGGAGATGGTCAAAGAGATCCTGACAGCCCTGGGCTTGTGCCCTGTGCC  
 AACACACGCACGGGGAGCCTCTCAGGCGCCAGCGGAAACGCCTGGCCATTGCCCTGGAGCTGGTCAACA  
 ACCCGCCTGTCATGTTCTTTGATGAGCCACCAGTGGCCTGGACAGCGCCTCCTGCTTCCAAGTGGTGT  
 TCTGATGAAAGGACTGGCCAGGGTGGCCGCTCCATCGTCTGTACCATCCACCAGCCAGTGCCAAGCTC  
 TTTGAGCTCTTTGACCAGCTTTATGTCCTAAGTCAAGGACAATGCGTATACAGGGGAAAGGTCTCCAATC  
 TCGTGCCGTATCTGAGGGATCTGGGTCTGAACTGCCCTACCTACCACAACCCAGCAGACTTTGTGATGGA  
 AGTGGCATCAGGGGAGTACGGGGATCAGAACAGTCGCCTGGTGGAGCCGTGGAGAGGGCATGTGTGAC  
 GCTGACTATAAGAGAGACCTCGGGGGCAGACCCGATGTGAACCCGTTTCTTTGGCACCGCCTGCTGAAG  
 AGGACTCCGCCTCCATGGAAGTTGCCATAGCTTCTCGGCCAGCTGCCTCACCCAGTTCTGCATCCTCTT  
 CAAGAGGACCTTCTCAGCATCATGCGGGACTCGGTCTGACACATCTGCGAATCACCTCGCACATTGGG  
 ATCGGCCCTGCTCATTGGCCTGCTGTACCTGGGGATTGGGAATGAAGCCAAGAAGTCTTAGCAACTCCG  
 GCTTCTGTTCTTCTCCATGCTGTTCTCATGTTTGTGTCCTCATGCCACTGTCTGACCTTTCCCT  
 GGAGATGAGTGTCTTCTCCGGGAGCACCTGAACTACTGGTACAGCCTGAAGGCCACTACCTGGCAAAG  
 ACCATGGCCGATGTCCCCTTTCAGATCATGTTCCCTGTGGCCTACTGCAGTATCGTATACTGGATGACGT  
 CCCAGCCGTGGACGCTGTGCGTTTTGTGCTGTTGCTGCTCTGGGTACCATGACATCGTGGTGGCCCA  
 GTCCTTAGGACTACTGATTGGAGCTGCATCCACATCCCTGCAGGTTGCGACATTTGTGGTCCCCTGACA  
 GCCATCCCCTGCTGCTTCTCCGGATTCTTTGTGAGCTTTGACACCATCCCAGCCTACCTGCAGTGG  
 GTGCTACATCTCCTATGTGAGTACGGCTTTGAGGGGGTTCATCCTGTCCATCTACGGCTTGGACCGAGA  
 AGACCTGCACTGCGACATCGCGGAGACATGCCACTCCAGAAGTCAAGAGCCATCCTGAGGGAGCTGGAC  
 GTGGAGAATGCGAAGCTGTACCTGGATTTCATCGTCTGCGGATCTTCTCATCTCCCTGCGGCTCATCG  
 CCTATTCGTCCTCAGATACAAAATCCGGGCTGAGAGG

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG227241 representing NM\_009593  
 Red=Cloning site Green=Tags(s)

MACLMAAFSVGTAMNASSYSAAMTEPKSVCVSVDEVVSSNVDEVETDLLNGHLKKVDNNFTEAQRFS  
 RRAAVNIEFKDLSYVPEGPWWKKKGYKTLLKGISGKFNSELVAIMGPSGAGKSTLMNLAGYRETGMK  
 GAVLINGMPRDLRCFRKVSICYIMQDDMLLPHLTVQEAMVSAHLKLEKDEGRREMVKEILTALGLLPCA  
 NTRTGSLSGGQRKRLAIALELVNPPVMFFDEPTSGLDSASCFQVVSLMKGLAQGGRSIVCTIHQPSAKL  
 FELFDQLYVLSQGQCVYRGKVSNLVPYLRDLGLNCPYHNPADFVMEVASGEYGDQNSRLVRVREGMCD  
 ADYKRDLGGDTDVNPFLWHRPAEEDSASMEGCHSFASCLTQFCILFKRTFLSIMRDSVLTHLRITSHIG  
 IGLLIGLLYLIGINEAKKVLNSGFLFFSMLFLMFAALMPTVLTFFLEMSVFLREHLNYWYSLKAYYLAK  
 TMADVPFQIMFPVAYCSIVYWMTSQPSDAVRFVLFALGTMTSLVAQSLGLLIGAASLQVATFVGPVT  
 AIPVLLFSGFFVSDTIPAYLQWMSYISYVRYGFEGVILSIYGLDREDLHCDIAETCHFQKSEAILRELD  
 VENAKLYLDFIVLGIFFISLRLIAYFVLRKYKIRAER

TRTRPLE - GFP Tag - V

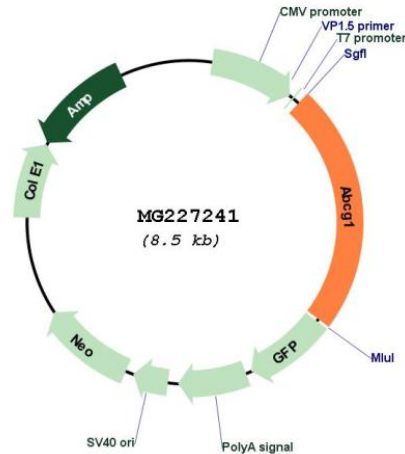
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_009593

**ORF Size:** 1998 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](mailto: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](#)

**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\\_009593.1](#)

**RefSeq Size:** 5821 bp

**RefSeq ORF:** 2001 bp

**Locus ID:** 11307

**UniProt ID:** [Q64343](#)

**Cytogenetics:** 17 A3.3

**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. The human protein is involved in macrophage cholesterol efflux and may regulate cellular lipid homeostasis in other cell types. [provided by RefSeq, Jul 2008]