

## Product datasheet for **RR202746**

### **Abcg1 (NM\_053502) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcg1 (NM_053502) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcg1
Synonyms:	Abc8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR202746 representing NM\_053502  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTGTCTGATGGCCGCTTTCTCGGTGGCCACCGCCATGAATGCCAGCAACTACTCGGCCGCAATGA  
 CGGAACCCAAAGTCCGTGTGCGTGTGCGTGGACGAGGTCGTGTCCAGCAAGTGGATGAGCTTGAGACAGA  
 TCTGCTTAATGGGCACCTGAAGAAGGTGGACAACAACCTCACGGAGGCCAGCGCTTTCTCCCTGCCG  
 CGGAGGGCGGCCGTGAATATCGAATTCAAGGACCTTTCTACTCCGTACCCGAGGGACCCTGGTGGAGGA  
 AGAAAGGATACAAGACCCTTTTAAAGGGATCTCTGGGAAGTTCAACAGTGGAGAGCTGGTGGCCATCAT  
 GGGTCTTCTGGAGCTGGGAAGTCCACACTCATGAATATTCTGGCGGGATACAGGGAGACGGGCATGAAG  
 GGGGCAGTCTTATCAATGGTATGCCCGCGACCTGCGTGTCCGGAAGGTCTCGTGTACATCATGC  
 AGGATGACATGCTGCTGCCTCACCTCACTGTCCAGGAGCCATGATGGTGTCCGCGCATCTGAAGCTGCA  
 AGAGAGGGATGAAGGCAGACGGGAGATGGTCAAGGAGATCCTGACAGCACTGGGCTTGTGCCCTGTGCC  
 AACACACGCACAGGGAGCCTCTCGGGTGGCCAGCGGAAGCGCCTGGCCATTGCACTAGAAGTGGTCAACA  
 ACCCTCCTGTTATGTTCTTTGATGAGCCACCAGTGGCCTGGACAGTGCCTCTTGCTTCCAAGTGGTGTG  
 CCTGATGAAAGGGCTGGCCAGGGCGGCCCTCCATCGTCTGCACCATCCACCAACCCAGTGCCAAGCTC  
 TTCGAGCTCTTTGACCAGCTTTATGTCCTAAGTCAAGGACAATGTGTCTACCGGGGAAAGGTCTCGAATC  
 TCGTGGCCTACCTGAGGGATCTGGGTCTGAACTGCCCTACCTACCACAACCCCTGCAGACTTTGTGATGGA  
 AGTGGCATCAGGGGAGTACGGTGTGATCAGAACAGCCGCTGGTGGGGCCGTTCCGGAGGGCATGTGTGAC  
 TCTGACTATAAGAGAGAAGTCCGGGGCGACGGAGACGTGAACCCGTTCTCTGGCACCGGCTGCTGAAG  
 AGGACTCGGCCTCCATGGAAGTTGCCACAGCTTCTCGGCCAGTGCCTCACCCAGTTCTGCATCCTCTT  
 CAAGAGGACCTTCTTAGCATCATGCGGGACTCGGTACTGACACACCTGCGAATCACCTCACACATCGGG  
 ATCGGTCTCCTCATTGGCCTCCTGTACCTTGGGATTGGGAACGAAGCCAAGAAGTCTGAGCAACTCCG  
 GCTTCTGTTCTTCTCCATGCTGTTCTCATGTTCCGCGCCCTCATGCCACCGTTCTGACCTTTCCCT  
 CGAGATGAGTGTCTTCTCCGAGAGCACCTGAACTACTGGTACAGTCTGAAGGCCACTACCTGGCCAAG  
 ACCATGGTGTGATGTCCTTTTCCAGATCATGTTCCCGTGGCCTACTGCAGCATCGTGTACTGGATGACAT  
 CACAGCCGTGGACGCTGTGCGTTTTGTGCTGTTGCTGCACTGGGCACCATGACCTCGTTGGTGGCCCA  
 GTCCTTAGGCCTACTCATTGGAGCTGCGTCCACATCCCTGCAGGTTGCGACGTTTGTGGTCCCGTGACA  
 GCCATCCCTGTCTTGTCTTCTCCGGTCTTTTGTGAGCTTTGACACCATCCCAACCTACCTGCAGTGG  
 TGTCTACATCTCCTACGTGAGTACGGTTCGAGGGGTCATCCTGTCCATCTATGGCTTGGACCGAGA  
 GGACCTGCACTGCGACATCGCGGAGACATGCCACTCCAGAAGTCAAGAGCCATCCTGCGGGAGCTAGAT  
 GTGGAGAACGCGAAGCTATACCTGGATTCATCGTCTCGGGCATCTTCTCATCTCCCTGCGGCTCATCG  
 CCTATTTGTCTGAGATACAAAATCCGGGCTGAGAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR202746 representing NM\_053502  
 Red=Cloning site Green=Tags(s)

MACLMAAFSVGTAMNASNYAAMTEPKSVCVSVDEVVSSNVDELETDLLNGHLKKVDNNFTEAQRFS  
 RRAAVNIEFKDLSYVPEGPWWRKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNLAGYRETGMK  
 GAVLINGMPRDLRCFRKVSICYIMQDDMLLPHLTVQEAMVSAHLKLQERDEGRREMVKEILTALGLLPCA  
 NTRTGSLSGGQRKRLAIALELVNNPPVMFFDEPTSGLDSASCFQVVSMLKGLAQGGRSIVCTIHQPSAKL  
 FELFDQLYVLSQGQCVRGKVSNLVPYLRDLGLNCPTYHNPADFVMEVASGEYGDQNSRLVRVREGMCD  
 SDYKRELGGDGDVNPFLWHRPAEEDSASMEGCHSFASCLTQFCILFKRTFLSIMRDSVLTSLRITSHIG  
 IGLLIGLLYLIGINEAKKVLNSGFLFFSMLFLMFAALMPTVLTFFLEMSVFLREHLNYWYSLKAYYLAK  
 TMADVPFQIMFPVAYCSIVYWMTSQPSDAVRFVLFALGTMTSLVAQSLGLLIGAASLQVATFVGPVT  
 AIPVLLFSGFFVSDFTIPTYLQWMSYISYVRYGFEGVILSIYGLDREDLHCDIAETCHFQKSEAILRELD  
 VENAKLYLDFIVLGIFFISLRLIAYFVLRYSKIRAER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

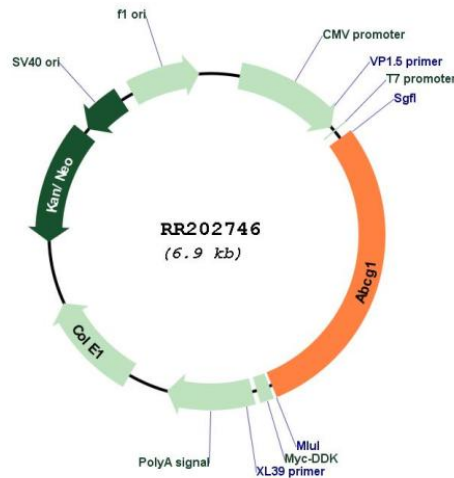
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_053502

ORF Size: 1998 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\\_053502.1](#), [NP\\_445954.1](#)

RefSeq Size: 3527 bp

RefSeq ORF: 2001 bp

Locus ID: 85264

Cytogenetics: 20p12

MW: 74.1 kDa

**Gene Summary:** ATP-binding cassette (ABC) half-transporter that facilitates the efflux of excess cholesterol from macrophages and may play an important role in cholesterol homeostasis [RGD, Feb 2006]