

## Product datasheet for **RC207734**

### **ABCG4 (NM\_022169) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | ABCG4 (NM_022169) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | ABCG4                                    |
| Synonyms:                 | WHITE2                                   |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



[View online »](#)

ORF Nucleotide  
Sequence:

>RC207734 representing NM\_022169  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGGAGAAGCGCTGGAGGCCGTGGGCTGTGGACTAGGGCCGGGGCTGTGGCCATGGCCGTGACGC  
TGGAGGACGGGGCGGAACCCCTGTGCTGACCACGCACCTGAAGAAGGTGGAGAACCACATCACTGAAGC  
CCAGCGCTTCTCCACCTACCAAGCGCTCAGCCGTGGACATCGAGTTCGTGGAGCTGTCTATTCCGTG  
CGGGAGGGCCCTGCTGGCGCAAAGGGTTATAAGACCCCTTCTCAAGTGCCTCTCAGGTAATTCTGCC  
GCCGGGAGCTGATTGGCATCATGGGCCCTCAGGGGTGGCAAGTCTACATTCATGAACATCTTGGCAGG  
ATACAGGGAGTCTGGAATGAAGGGCAGATCCTGGTTAATGGAAGGCCACGGGAGCTGAGGACCTCCGC  
AAGATGTCCTGCTACATCATGAAGATGACATGCTGCTGCCGCACCTCACGGTGTGGAAGCCATGATGG  
TCTCTGCTAACCTGAAGCTGAGTGAGAAGCAGGAGGTGAAGAAGGAGCTGGTACAGAGATCCTGACGGC  
ACTGGCCTGATGTCGTCTCCACACGAGGACAGCCCTGCTCTCTGGCGGCAGAGGAAGCGTCTGGCC  
ATCGCCCTGGAGCTGGTCAACAACCCGCTGTCATGTTCTTTGATGAGCCACCAGTGGTCTGGATAGCG  
CCTCTTGTTCGAAGTGGTGTCCCTCATGAAGTCCCTGGCACAGGGGGCCGTACCATCATCTGCACCAT  
CCACCAGCCAGTGCCAAGCTCTTTGAGATGTTTGACAAGCTCTACATCCTGAGCCAGGGTCAAGTGCATC  
TTCAAAGCGTGGTACCAACCTGATCCCTATCTAAAGGGACTCGGCTTGCAATTGCCCCACCTACCACA  
ACCCGGCTGACTTCATCATCGAGGTGGCCTCTGGCGAGTATGGAGACCTGAACCCATGTTGTTCAAGGC  
TGTGCAGAATGGCTGTGCGCTATGGCTGAGAAGAAGAGCAGCCCTGAGAAGAAGGAGTCCCTGCCCA  
TGCCCTCCTTGTCTCCGGAAGTGGATCCATTGAAAGCCACACCTTTGCCACCAGCACCTCACACAGT  
TCTGCATCCTCTCAAGAGGACCTTCTGTCCATCCTCAGGGACACGGTCTGACCCACCTACGGTTCAT  
GTCCACGTGGTTATTGGCGTGCTCATCGCCTCCTCTACCTGCATATTGGCGACGATGCCAGCAAGGTC  
TTCAACAACACCGGCTGCCTCTTCTTCTCCATGCTGTTCTCATGTTCCGCGCCCTCATGCCAAGTGTGC  
TCACCTTCCCCTTAGAGATGGCGGTCTTCATGAGGGAGCACCTCAACTACTGGTACAGCCTCAAAGCGTA  
TTACCTGGCCAAGACCATGGCTGACGTGCCCTTTCAGGTGGTGTGTCCGGTGGTCTACTGCAGCATTGTG  
TACTGGATGACGGGCCAGCCGCTGAGACCAGCCGCTTCTGCTTCTCAGCCCTGGCCACCGCCACCG  
CCTTGGTGGCCAATCTTGGGGCTGCTGATCGGAGCTGCTTCCAACCTCCCTACAGGTGGCCACTTTTGT  
GGGCCAGTACCGCCATCCCTGTCTTCTTCTCCGGCTTCTTGTGACGTTCAAGACCATCCCCTACT  
TACCTGCAATGGAGCTCCTATCTCTCTATGTCAGGTATGGCTTTGAGGGTGTGATCCTGACGATCTATG  
GCATGGAGCGAGGAGACCTGACATGTTTAGAGGAACGCTGCCCGTTCCGGGAGCCACAGAGCATCCTCCG  
AGCGCTGGATGTGGAGGATGCCAAGCTCTACATGGACTTCTGGTCTTGGGCATCTTCTCTAGCCCTG  
CGGCTGCTGGCCTACCTGTGCTGCGTTACCGGGTCAAGTCAGAGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:** >RC207734 representing NM\_022169  
Red=Cloning site Green=Tags(s)

MAEKALEAVGCGGLGPGAVAMAVTLEDGAEPVLTTHLKKVENHITAQRFSHLPKRSAVDIEFVELSYSV  
 REGPCWRKRGYKTLKCLSGKFCRRELIGIMGPGAGKSTFMNILAGYRESGMKGQILVNGRPRELRTFR  
 KMSCYIMQDDMLLPHLTVLEAMVYSANLKLSEKQEVKKELVTEILTALGLMSCSHTRTALLSGGQRKRLA  
 IALELVNPPVMFFDEPTSGLDSASCFQVVSLMKSLAQGGRTIICTIHQPSAKLFEMFDKLYILSQGQCI  
 FKGVVNTLIPYLKGLGLHCPTYHNPADFIEVASGEYGDLPMLFRAVQNGLCAMAEKSSPEKNEVPAP  
 CPPCPPEVDPIESHTFATSTLTQFCILFKRTFLSILRDTVLTHLRFMSHVVIGVLIGLLYLHIGDDASKV  
 FNNTGCLFFSMLFLMFAALMPTVLTFFLEMAVFMREHLNYWYSLKAYYLAKTMADVPFQVCPVYVCSIV  
 YWMTGQPAETSRFLLSALATATALVAQSLGLLIGAASNLSQVATFVGPVTAIPVLLSFGFFVSKTIPT  
 YLQWSSYLSYVRYGFEGVILTIYGMERGDLTCLREPCPFREPQSILRALDVEDAKLYMDFLVLGIFFLAL  
 RLLAYLVLRYRVKSER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3570\\_d10.zip](https://cdn.origene.com/chromatograms/mg3570_d10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_022169

**ORF Size:** 1938 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\\_022169.5](#)

**RefSeq Size:** 3874 bp

**RefSeq ORF:** 1941 bp

**Locus ID:** 64137

**UniProt ID:** [Q9H172](#)

**Cytogenetics:** 11q23.3

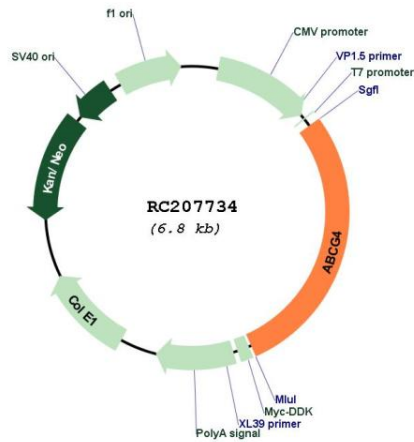
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters

**MW:** 71.7 kDa

**Gene Summary:** The protein encoded by this gene is a member of the ATP-binding cassette (ABC) transporter superfamily. 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). The encoded protein is a member of the White subfamily and plays an important role in cellular cholesterol homeostasis. This protein functions as either a homodimer or as a heterodimer with another ABC subfamily protein such as ABCG1. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC207734