

Product datasheet for **MR227241**

Abcg1 (NM_009593) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcg1 (NM_009593) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcg1
Synonyms:	Abc; Abc8; AW413978; Whit; White
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227241 representing NM_009593
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTGTCTGATGGCCGCTTTCTCGGTGGCCACCGCCATGAATGCCAGCAGCTACTCTGCCGCAATGA
 CGGAGCCCAAGTCCGTGTGCGTGTGAGTGGACGAGGTCGTGTCCAGCAAGTGGATGAGGTTGAGACAGA
 CCTGCTCAATGGGCACCTGAAGAAGGTGGACAACAACCTCACAGAGGCCAGCGCTTTCTCCCTCCG
 CGGAGGGCGGCCGTGAACATCGAATTCAAGGACCTTTCTACTCTGTACCCGAGGGGCCCTGGTGAAGA
 AGAAAGGATACAAGACCTTTTGAAGGGATCTCTGGGAAATCAACAGTGGAGAGCTGGTGGCCATCAT
 GGGTCCTTCTGGAGCTGGGAAGTCCACACTCATGAATATTCTGGCAGGATACAGGGAGACTGGCATGAAA
 GGGGCAGTCTTATCAATGGAATGCCCCGGGACCTGCGTGTCCGGAAGGTCTCTGCTACATCATGC
 AGGACGACATGCTGCTGCCTCACCTCACTGTTCCAGGAGCCATGATGGTGTCCGCGCATCTGAAGCTGCA
 GGAGAAGGATGAAGGCAGACGAGAGATGGTCAAAGAGATCCTGACAGCCCTGGGCTTGTGCCCTGTGCC
 AACACACGCACGGGGAGCCTCTCAGGCGCCAGCGGAAACGCCTGGCCATTGCCCTGGAGCTGGTCAACA
 ACCCGCCTGTCATGTTCTTTGATGAGCCACCAGTGGCCTGGACAGCGCCTCCTGCTTCCAAGTGGTGT
 TCTGATGAAAGGACTGGCCAGGGTGGCCGCTCCATCGTCTGTACCATCCACCAGCCAGTGCCAAGCTC
 TTTGAGCTCTTTGACCAGCTTTATGTCCTAAGTCAAGGACAATGCGTATACAGGGGAAAGGTCTCCAATC
 TCGTGGCGTATCTGAGGGATCTGGGTCTGAACTGCCCTACCTACCACAACCCAGCAGACTTTGTGATGGA
 AGTGGCATCAGGGGAGTACGGGGATCAGAACAGTCGCCTGGTGGAGCCGTGGAGAGGGCATGTGTGAC
 GCTGACTATAAGAGAGACCTCGGGGGCAGACCCGATGTGAACCCGTTTCTTTGGCACCGGCTGCTGAAG
 AGGACTCCGCTCCATGGAAGTTGCCATAGCTTCTCGGCCAGCTGCCTCACCCAGTTCTGCATCCTCTT
 CAAGAGGACCTTCTCAGCATCATGCGGGACTCGGTCTGACACATCTGCGAATCACCTCGCACATTGGG
 ATCGGCCCTGCTCATTGGCCTGCTGTACCTGGGATTGGGAACGAAGCCAAGAAGTCTGAGCAACTCCG
 GCTTCTGTTCTTCTCCATGCTGTTCTCATGTTTGTGCTGCCCTCATGCCACCCTTCTGACCTTTCCCT
 GGAGATGAGTGTCTTCTCCGGGAGCACCTGAACTACTGGTACAGCCTGAAGGCCACTACCTGGCAAAG
 ACCATGGCCGATGTCCCCTTTCAGATCATGTTCCCTGTGGCCTACTGCAGTATCGTATACTGGATGACGT
 CCCAGCCGTGGACGCTGTGCGTTTTGTGCTGTTGCTGCTCTGGGTACCATGACATCGTGGTGGCCCA
 GTCCTTAGGCCTACTGATTGGAGCTGCATCCACATCCCTGCAGGTTGCGACATTTGTGGTCCCCTGACA
 GCCATCCCCTGCTGCTTCTCCGGATTCTTTGTGAGCTTTGACACCATCCCAGCCTACCTGCAGTGG
 GTGCTACATCTCCTATGTGAGTACGGCTTTGAGGGGTCATCCTGTCCATCTACGGCTTGGACCGAGA
 AGACCTGCACTGCGACATCGCGGAGACATGCCACTCCAGAAGTCAAGAGCCATCCTGCGGGAGCTGGAC
 GTGGAGAATGCGAAGCTGTACCTGGATTTCATCGTCTGGGCATCTTCTCATCTCCCTGCGGCTCATCG
 CCTATTCGTCTCAGATACAAAATCCGGGCTGAGAGG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227241 representing NM_009593
 Red=Cloning site Green=Tags(s)

MACLMAAFSVGTAMNASSYSAAMTEPKSVCVSVDEVVSSNVDEVETDLLNGHLKKVDNNFTEAQRFS
 RRAAVNIEFKDLSYVPEGPWWKKKGYKTLLKGISGKFNSGELVAIMGPSGAGKSTLMNLAGYRETGMK
 GAVLINGMPRDLRCFRKVSICYIMQDDMLLPHLTVQEAMMVAHLKLQEKDEGRREMVKEILTALG
 LLPCA NTRTGSLSGGQQRKRLAIALELVNPPVMFFDEPTSGLDSASCFQVVSLMKGLAQGGRS
 IVCTIHQPSAKL FELFDQLYVLSQGQCQVYRGKVSNLVPYLRDLGLNCPYHNPADFVMEVASGE
 YGDQNSRLVRVREGMCD ADYKRD LGD TDVNPFLWHRPAEEDSASMEGCHSF SASCLTQFCIL
 FKRTFLSIMRDSVLTHLRITSHIG IGLLIGLLYLIGIGNEAKKVLNSGFLFFSMLFLMFAALMPT
 VLTFFLEMSVFLREHLNYWYSLKAYYLAK TMADVPFQIMFPVAYCSIVYWMTSQPSDAVRVLF
 AALGTMTSLVAQSLGLLIGAASLQVATFVGPVT AIPVLLFSGFFVSDTIPAYLQWMSYISYVRY
 GFEGVILSIYGLDREDLHCDIAETCHFQKSEAILRELD VENAKLYLDFIVLGIFFISLRLIAYFV
 LRYKIRAER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9014_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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 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_009593.2](#), [NP_033723.1](#)

RefSeq Size: 5821 bp

RefSeq ORF: 2001 bp

Locus ID: 11307

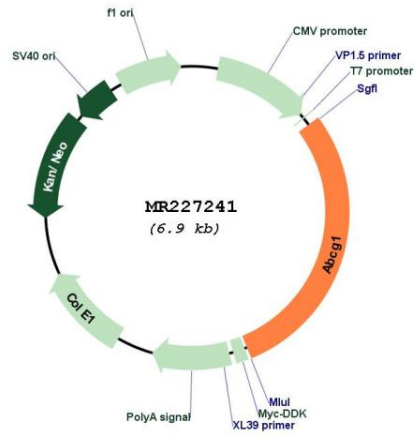
UniProt ID: [Q64343](#)

Cytogenetics: 17 A3.3

MW: 74.5 kDa

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]

Product images:



Circular map for MR227241