

Product datasheet for **MR224940**

Abcg5 (NM_031884) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcg5 (NM_031884) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcg5
Synonyms:	cm; cmp; Ster; sterolin-1; tr; trac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224940 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGAGCTGCCCTTTCTGAGTCCAGAGGGAGCCAGAGGGCCTCACATCAACAGAGGGTCTCTGAGCT
 CCCTGGAGCAAGGTTTCGGTCACGGGCACAGAGGCTCGGCACAGCTTAGGTGTCCTGCATGTGTCTACAG
 CGTCAGCAACCCTGTCGGGCTTGGTGGAAATCAAATCATGCCAGCAGAAGTGGGACAGGCAAATCCTC
 AAAGATGTCTCCTGTACATCGAGAGTGGCCAGATTATGTGCATCTTAGGCAGCTCAGGCTCAGGGAAGA
 CCACGCTGCTGGACGCCATCTCCGGGAGGCTGCGGCGCACTGGGACCCTGGAAGGGGAGGTGTTTGTGAA
 TGGCTGCGAGCTGCGCAGGGACCAGTTCGAAGACTGCTTCTCCTACGTCCTGCAGAGCGAGCTTTTTCTG
 AGCAGCCTCACTGTGCGGAGACGTTGCGATACACAGCGATGCTGGCCCTCTGCCGAGCTCCGCGGACT
 TCTACAACAAGAAGGTAGAGGCAGTCATGACAGAGCTGAGCCTGAGCCACGTGGCGGACCAAATGATTGG
 CAGCTATAATTTTGGGGGAATTTCCAGTGGCGAGCGGCGCGAGTTTCCATCGCAGCCAACTCCTTCAG
 GACCCCAAGGTATGATGCTAGATGAGCCAACACAGGACTGGACTGCATGACTGCAAATCAAATTTGTC
 TTCTCTTGGCTGAGCTGGCTCGCAGGGACCGAATTGTGATTGTCACCATCCACCAGCCTCGCTCTGAGCT
 CTTCCAACACTTCGACAAAATTGCCATCCTGACTTACGGAGAGTTGGTGTCTGTGGCACCCAGAGGAG
 ATGCTTGGCTTCTTAATAACTGTGGTTACCCCTGTCTGAACATTCCAATCCCTTTGATTTTTACATGG
 ACTTGACATCAGTGGACACCCAAAGCAGAGAGCGGAAATAGAAACGTACAAGCGAGTACAGATGCTGGA
 ATGTGCCTTCAAGGAATCTGACATCTATCAAAAATCTGGAGAACATTGAAAGAGCAGGATACCTGAAA
 ACCTTACCACGTTCTTTCAAACAAAAGATCCTCCTGGGATGTTTCGCAAGCTTGGTGTCTGCTGA
 GCGGAGTAACAAGAACTTAATGAGGAATAAGCAGGCAGTGATTATGCGTCTCGTTCAGAAATCTGATCAT
 GGGCCTTCTCTCATTTTCTACCTTCTCCGCGTCCAGAACAACACGCTAAAGGGCGCTGTGACAGGACCGC
 GTGGGGCTGCTCTATCAGCTTGTGGGTGCCACCCATACACCGGATGCTCAATGCTGTGAATCTGTTTC
 CCATGCTGAGAGCCGTCAGCGACCAGGAGAGTCAAGATGGCCTGTATCATAAGTGGCAGATGCTGCTCGC
 CTACGTGCTACACGCTCTCCCTTCAGCGTCATCGCCACGGTCATTTTCAGCAGTGTGTGTTATTGGACT
 CTGGGCTGTATCCTGAAGTTGCCAGATTTGGATATTTCTCTGCTGCTTTTTGGCCCTCACTTAATTG
 GAGAATTTCTAACACTTGTGCTGCTTGGTATAGTCCAAAACCTAATATTGTCAACAGTATAGTGGCTCT
 GCTCAGCATCTCTGGGCTGCTTATTGGATCTGGATTTATCAGAAACATAACAAGAAATGCCATTCTTTA
 AAAATCCTGGGTTATTTTACATTCCAAAATACTGTTGTGAGATTCTCGTGGTCAATGAGTTTTACGGCC
 TGAATTCACCTTGTGGTGGATCCAACACCTCTATGCTAAATCACCCGATGTGCGCCATCACCCAAGGGGT
 CCAATTCATCGAGAAAACCTGCCAGGTGCTACATCCAGATTCACGGCAAATTCCTCATCTTATATGGG
 TTTATCCAGCTCTGGTCATCTAGGAATAGTGATTTTTAAAGTCAGGGACTACCTGATTAGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224940 protein sequence
Red=Cloning site Green=Tags(s)

MGELPFLSPEGARGPHINRGLSSLEQGSVTGTEARHSLGVLHVSYSVSNRVGPWWNIKSCQQKWDRQIL
 KDVSLYIESGQIMCILGSSGSGKTTLLDAISGLRRLRTGTLEGEVFNVCCELRRDQFQDCFSYVLQSDVFL
 SSLTVRETLLRYTAMLALCRSSADFYNNKVEAVMTELSLHVADQMIGSYNFGGISGERRRVSIAAQLLQ
 DPKVMMLDEPTTGLDCMTANQIVLLLAELARRDRIVIVITIHQPRSELFQHFDKIAILTYGELVFCGTPPEE
 MLGFFNCGYPCPEHSNPFDFYMDLTSVDTQSREREIETYKRVQMLECAFKESDIYHKILENIERARYLK
 TLPTVPFKTKDPPGMFGKLGVLRLRVTRNLMRNKQAVIMRLVQNLMGLFLIFYLLRVQNNLTKGAVQDR
 VGLLYQLVGATPYTGMLNAVNLFPMLRAVSDQESQDGLYHKWQMLLAYVLHVLVPSVIATVIFSSVCYWT
 LGLYPEVARFGYFSAALLAPHLIGEFLLVLLGIVQNPNIVNSIVALLSISGLLIGSGFIRNIQEMPIPL
 KILGYFTFQKYCCEILVNEFYGLNFTCGGSNTSMLNHPMCAITQGVQFIEKTCPGATSRFTANFLILYG
 FIPALVILGIVIFKVRDYLSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_031884

ORF Size: 1959 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_031884.2](#), [NP_114090.1](#)

RefSeq Size: 2266 bp

RefSeq ORF: 1959 bp

Locus ID: 27409

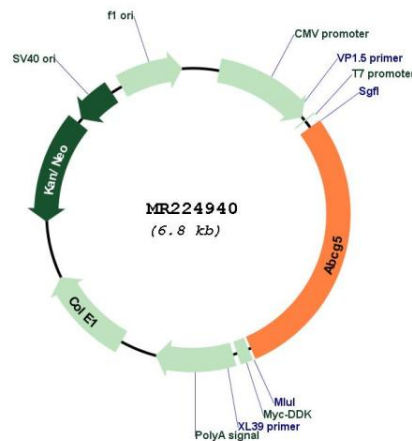
UniProt ID: [Q99PE8](#)

Cytogenetics: 17 55.02 cM

MW: 73.2 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, and functions as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. Disruption of this gene in mice results in thrombocytopenia, prolonged bleeding times, anemia, leukopenia, infertility, shortened life span and cardiomyopathy. Mice lacking this gene show symptoms of sitosterolemia. [provided by RefSeq, Nov 2015]

Product images:



Circular map for MR224940