

Product datasheet for **MC220083**

Abcg5 (NM_031884) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcg5 (NM_031884) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC220083 representing NM_031884
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGAGCTGCCCTTTCTGAGTCCAGAGGGAGCCAGAGGGCCACATCAACAGAGGGTCTCTGAGT
 CCCTGGAGCAAGGTTTCGGTACAGGGCACAGAGGCTCGGCACAGCTTAGGTGTCCTGCATGTGTCTACAG
 CGTCAGCAACCGTGTTCGGCCTTGGTGGAAATCAAATCATGCCAGCAGAAGTGGACAGGCAAATCCTC
 AAAGATGTCTCCTGTACATCGAGAGTGGCCAGATTATGTGCATCTTAGGCAGCTCAGGCTCAGGGAAGA
 CCACGCTGCTGGACGCCATCTCCGGGAGGCTGCGGCGCACTGGGACCCTGGAAGGGGAGGTGTTGTGAA
 TGGCTGCGAGCTGCGCAGGGACCAGTTCGAAGACTGCTTCTCCTACGTCCTGCAGAGCGAGCTTTTTCTG
 AGCAGCCTCACTGTGCGGAGACGTTGCGATACACAGCGATGCTGGCCCTCTGCCGAGCTCCGCGGACT
 TCTACAACAAGAAGGTAGAGGCAGTCATGACAGAGCTGAGCCTGAGCCACGTGGCGGACCAAATGATTGG
 CAGCTATAATTTTGGGGGAATTTCCAGTGGCGAGCGGCGCGAGTTTCCATCGCAGCCAACTCCTTCAG
 GACCCCAAGGTATGATGCTAGATGAGCCAACACAGGACTGGACTGCATGACTGCAAATCAAATGTGCC
 TTCTCTTGGCTGAGCTGGCTCGCAGGGACCGAATTGTGATTGTCACCATCCACCAGCCTCGCTCTGAGCT
 CTTCCAACACTTCGACAAAATTGCCATCCTGACTTACGGAGAGTTGGTGTCTGTGGCACCCAGAGGAG
 ATGCTTGGCTTCTTCAATAACTGTGGTTACCCCTGTCTGAACATTCCAATCCCTTTGATTTTTACATGG
 ACTTGACATCAGTGGACACCCAAAGCAGAGAGCGGAAATAGAAACGTACAAGCGAGTACAGATGCTGGA
 ATGTGCCTTCAAGGAATCTGACATCTATCAAAAATTCTGGAGAACATTGAAAGAGCAGGATACCTGAAA
 ACCTTACCCACGGTTCCTTTCAAACAAAAGATCCTCCTGGGATGTTTCGGCAAGCTTGGTGTCTGCTGA
 GCGGAGTAACAAGAACTTAATGAGGAATAAGCAGGCAGTGATTATGCGTCTCGTTCAGAATCTGATCAT
 GGGCCTTCTCCTATTTTCTACCTTCTCCGCTCCAGAACAACACGCTAAAGGGCGCTGTGCAGGACCGC
 GTGGGGCTGCTCTATCAGCTTGTGGGTGCCACCCCATACACCGCATGCTCAATGCTGTGAATCTGTTTC
 CCATGCTGAGAGCCGTCAGCGACCAGGAGAGTCAAGATGGCCTGTATCATAAGTGGCAGATGCTGCTCGC
 CTACGTGCTACACGTCCTCCCTTCAGCGTCATCGCCACGGTCATTTTCAGCAGTGTGTATTGGACT
 CTGGGCTTGATCCTGAAGTTGCCAGATTTGGATATTTCTGCTGCTCTTTGGCCCTCACTTAATTG
 GAGAATTTCTAACACTTGTGCTGCTTGGTATAGTCCAAAACCTAATATTGTCAACAGTATAGTGGCTCT
 GCTCAGCATCTCTGGGCTGCTTATTGGATCTGGATTTATCAGAAACATACAAGAAATGCCATTCCCTTTA
 AAAATCCTGGGTTATTTTACATTCAAAATACTGTTGTGAGATTCTCGTGGTCAATGAGTTTTACGGCC
 TGAATTCACCTTGTGGTGGATCCAACACCTCTATGCTAAATCACCGATGTGCGCCATCACCCAAGGGGT
 CCAATTATCGAGAAAACCTGCCAGGTGCTACATCCAGATTCACGGCAAATTCCTCATTTATATGGG
 TTTATCCAGCTCTGGTCATCTAGGAATAGTGATTTTTAAAGTCAGGGACTACCTGATTAGCAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_031884
- Insert Size:** 1959 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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: 2411 bp

RefSeq ORF: 1959 bp

Locus ID: 27409

UniProt ID: [Q99PE8](#)

Cytogenetics: 17 55.02 cM

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]