

## Product datasheet for **MC228250**

### **Abcg8 (NM\_001286005) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcg8 (NM_001286005) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Abcg8
Synonyms:	1300003C16Rik; AI114946; sterolin-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228250 representing NM\_001286005  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATCAGACAAATTTGGATAAATGGCAACCCAGTACGCCCTCAGCTGGTGAGGAAGTGC GTTGC GC  
 ATGTGCGGCAGCATGACCAACTGCTGCCAACCTGACCGTCAGAGAGACCCTGGCTTTCATTGCCAGAT  
 GCGCCTGCCAGGACCTTCTCCCAGGCCAGCGTGACAAACGGGTGGAAGACGTAATCGCCGAGCTGCGG  
 CTGCGGCAGTGCGCCAACACCAGAGTGGCAACACGTATGTACGTGGGTGTCCGGGGTGAGCGCCGAC  
 GAGTGAGCATTGGGGTGCAGCTCCTGTGGAACCCAGGAATCCTCATTCTGGATGAACCCACTTCTGGCCT  
 CGACAGCTTCACAGCCACAATCTGGTGACAACCTTGCCCGCCTGGCCAAGGGCAACAGGCTGGTGCTC  
 ATCTCCCTCCACCAGCCTCGCTCGACATCTTCAGGCTATTTGACCTGGTCTTCTGATGACATCTGGCA  
 CCCCTATCTACCTGGGGCGGCGCAGCAAATGGTGCAGTACTTACATCCATTGGCCACCCTTGCTCTCG  
 CTATAGCAACCCGCGGACTTCTACGTGGACTTGACCAGCATCGACAGACGAGCAAAGAACGGGAGGTG  
 GCCACCGTGGAGAAGGCACAGTCTCTTGACGCCCTGTTCCCTAGAAAAAGTACAAGGCTTTGATGACTTTC  
 TGTGAAAAGCTGAGGCAAAGGAACCTCAACACAAGCACCCACACAGTCAGCCTGACCTCACACAGGACAC  
 TGA CTGTGGGACTGCTGTTGAGCTGCCCGGGATGATAGAGCAGTTTTCCACCCTGATCCGTGCTCAGATT  
 TCCAATGACTTCCGGGACCTGCCACGCTGCTCATTCAATGGGTGGAAGCCTGCCTGATGTCCTCATCA  
 TTGGCTTCTTTACTACGGCCATGGGGCAAGCAGCTCTCCTTCAATGGACACAGCAGCCCTCCTCTTCAT  
 GATAGGGGCGCTCATTCTTTCAATGTCATCCTGGATGTCGTCTCCAATGTCACCTCGGAGAGGTCAATG  
 CTGTACTATGAGCTGGAAGACGGGCTGTACACTGCTGGTCTTATTTCTTTGCCAAGATCCTAGGAGAAT  
 TGCCGGAGCACTGTGCCTACGTACATCATCTACGCGATGCCATCTACTGGCTGACAAACCTGCGGCCGT  
 GCCTGAGCTCTTCTTCTACACTTCTGCTCGTGTGGTTGGTGGTCTTCTGCTGCAGGACCATGGCCCTG  
 GCTGCCTCTGCCATGCTGCCACCTCCACATGTCTCCTTCTTCTGCAATGCCCTCTACAACCTCTTCT  
 ACCTTACTGCCGCTTCA TGATAAACTGGACAACCTGTGGATAGTGCCTGCATGGATCTCCAAGCTGTC  
 GTTCTCCGGTGGTGCTTCTCGGGGCTGATGCAGATTCAATTTAATGGACACCTTTACACCACACAAATC  
 GGCAACTTCACCTTCTCCATCCTCGGAGACAGATGATCAGTGCCATGGACCTGAACTCGCATCCACTCT  
 ATGCGATCTACCTCATTGTCATCGGCATCAGCTACGGCTTCTGTCTGTA CTATCTATCCTTGAAGCT  
 CATCAAACAGAAGTCAATCAAGACTGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001286005

**Insert Size:** 1641 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001286005.1](#), [NP\\_001272934.1](#)

**RefSeq Size:** 3432 bp

**RefSeq ORF:** 1641 bp

**Locus ID:** 67470

**UniProt ID:** [Q9DBM0](#)

**Cytogenetics:** 17 55.02 cM

**Gene Summary:** ABCG5 and ABCG8 form an obligate heterodimer that mediates Mg(2+)- and ATP-dependent sterol transport across the cell membrane (PubMed:16352607, PubMed:16867993, PubMed:18402465). Plays an essential role in the selective transport of the dietary cholesterol in and out of the enterocytes and in the selective sterol excretion by the liver into bile (PubMed:12444248, PubMed:14504269, PubMed:14657202, PubMed:25378657). Plays an important role in preventing the accumulation of dietary plant sterols in the body (PubMed:12444248, PubMed:14657202). Required for normal sterol homeostasis (PubMed:12444248, PubMed:14657202). The heterodimer with ABCG5 has ATPase activity (PubMed:16352607, PubMed:16867993).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.