

Product datasheet for **MC209798**

Abcc5 (NM_176839) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc5 (NM_176839) Mouse Untagged Clone
Tag: Tag Free
Symbol: Abcc5
Synonyms: 2900011L11Rik; Abcc; Abcc5a; Abcc5b; AI132311; Mr; Mrp5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209798 representing NM_176839
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAAGATATTGACATGGGAAAAGAATATATCATCCCCAGCCCTGGGTACAGAAGTGACAGGGACAGAA
 GCGCTGTACCAGGGCAACACAGAGACCCCGAGGAACCCAGGTTCCGGAGAACAAGATCGTTGGAATGCCA
 AGATGCTCTCGAAACAGCAGCCCGAGTTGAGGGGCTTTCCCTGGATATCTCTGTGCATTCTCATCTCCAA
 ATTCTGGACGAGGAGCATTCTAAGGGAAAATACCACCATGGTTTAAAGTGTCTGAAGCCCTTCCGGACCA
 CTACCAAGCACCAGCACCAGTGGACAATGCTGGACTTTTCTCCTACATGACCTTTTCATGGCTCTCTCC
 TCTGGCCCGAGTGGTTCACAAGAAGGGGGAGCTGTTAATGGAGGATGTGTGGCCTTTGTCCAAGTATGAG
 TCTTCTGATGTGAACAGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGAAGTTGGGCCAGACG
 CTGCCTCCCTGCGAAGGGTTGTGTGGATCTTTTGCCGCACCAGGCTCATCCTGTCCATCGTGTGCCTGAT
 GATCACGCAGTTGGCTGGCTTCAAGTGGACCAATTTTCAGGATGGCTGTATTCTGCGGTCAGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_176839
Insert Size: 627 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).



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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:	<ol style="list-style-type: none">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:	<u>NM_176839.1</u> , <u>NP_789809.1</u>
RefSeq Size:	1204 bp
RefSeq ORF:	627 bp
Locus ID:	27416
Cytogenetics:	16 12.41 cM
Gene Summary:	<p>The membrane-associated 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 MRP subfamily which is involved in multi-drug resistance. The human protein functions in the cellular export of its substrate, cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that the human protein provides resistance to thiopurine anticancer drugs, 6-mercaptopurine and thioguanine, and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks multiple 3' exons but has two alternate 3' exons, as compared to variant 1. The encoded isoform (2) is much shorter and has a distinct C-terminus, as compared to isoform 1.</p>