

## Product datasheet for MR218235

### Abcc5 (NM\_176839) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Abcc5 (NM\_176839) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Abcc5  
**Synonyms:** 2900011L11Rik; Abcc; Abcc5a; Abcc5b; AI132311; Mr; Mrp5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR218235 representing NM\_176839  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAGATATTGACATGGGAAAAGAATATATCATCCCCAGCCCTGGGTACAGAAGTGACAGGGACAGAA  
 GCGCTGTACCAGGGCAACACAGAGACCCCGAGGAACCCAGGTTCCGGAGAACAAGATCGTTGGAATGCCA  
 AGATGCTCTCGAAACAGCAGCCCGAGTTGAGGGGCTTTCCCTGGATATCTCTGTGCATTCTCATCTCAA  
 ATTCTGGACGAGGAGCATTCTAAGGAAAATACCACCATGGTTTAAAGTGTCTGAAGCCCTCCGGACCA  
 CTACCAAGCACCAGCACCAGTGGACAATGCTGGACTTTTCTCCTACATGACCTTTTCATGGCTCTCTCC  
 TCTGGCCCGAGTGGTTCACAAGAAGGGGAGCTGTTAATGGAGGATGTGTGCCTTTGTCCAAGTATGAG  
 TCTTCTGATGTGAACAGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGAAGTTGGGCCAGACG  
 CTGCCTCCCTGCGAAGGGTTGTGTGGATCTTTGCCGCACCAGGCTCATCCTGTCCATCGTGTGCCTGAT  
 GATCACGCAGTTGGCTGGCTTCAGTGGACCAAATTTTCAGGATGGCTGTATTCTGCGGTCAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218235 representing NM\_176839  
 Red=Cloning site Green=Tags(s)

MKDIDMGKEYIIPSPGYRSDRDRSAVPGQHRDPEEPRFRRTSLEQDALETAARVEGLSLDISVHSHLQ  
 ILDEEHSKGYHHGLSVLKPFRRTTKHQHPVDNAGLFSYMTFSWLSPLARVVHKKGELLMEDVWPLSKYE  
 SSDVNSRRLERLWQEELNEVGPDAASLRRVVWIFCRTRLILSIVCLMITQLAGFSGPNFQDGCILRSE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

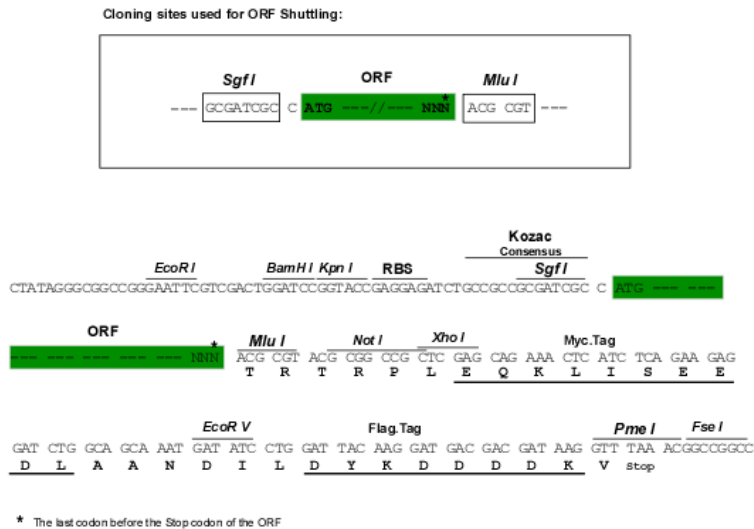


[View online »](#)

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9032\\_f11.zip](https://cdn.origene.com/chromatograms/mm9032_f11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_176839

**ORF Size:** 624 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\\_176839.1](#), [NP\\_789809.1](#)

**RefSeq Size:** 1204 bp

**RefSeq ORF:** 627 bp

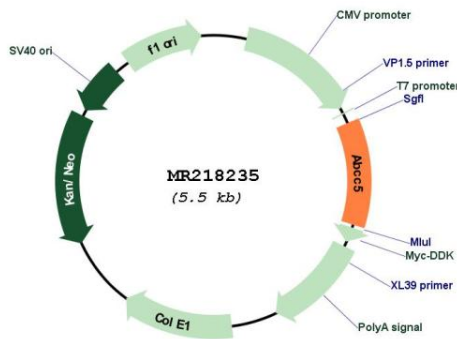
**Locus ID:** 27416

**Cytogenetics:** 16 12.41 cM

**MW:** 24.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR218235