

Product datasheet for **MG218235**

Abcc5 (NM_176839) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc5 (NM_176839) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Abcc5
Synonyms: 2900011L11Rik; Abcc; Abcc5a; Abcc5b; AI132311; Mr; Mrp5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218235 representing NM_176839
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGATATTGACATGGGAAAAGAATATATCATCCCCAGCCCTGGGTACAGAAGTGACAGGGACAGAA
GCGCTGTACCAGGGCAACACAGAGACCCCGAGGAACCCAGGTTCCGGAGAACAAGATCGTTGGAATGCCA
AGATGCTCTCGAAACAGCAGCCCGAGTTGAGGGGCTTCCCTGGATATCTCTGTGCATTCTCATCTCCAA
ATTCTGGACGAGGAGCATTCTAAGGAAAATACCACCATGGTTTAAAGTGTCTGAAGCCCTCCGGACCA
CTACCAAGCACCAGCACCAGTGGACAATGCTGGACTTTTCTCCTACATGACCTTTTCATGGCTCTCTCC
TCTGGCCCGAGTGGTTCACAAGAAGGGGAGCTGTTAATGGAGGATGTGTGGCCTTTGTCCAAGTATGAG
TCTTCTGATGTGAACAGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGAAGTTGGCCAGACG
CTGCCTCCCTGCGAAGGGTTGTGTGGATCTTTGCCCGACCAGGCTCATCCTGTCCATCGTGTGCCTGAT
GATCACGCAGTTGGCTGGCTTCACTGGACCAAATTTTCAGGATGGCTGTATTCTGCGGTCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218235 representing NM_176839
Red=Cloning site Green=Tags(s)

MKDIDMGKEYIIPSPGYRSDRDRSAVPGQHRDPEEPRFRTRRSLECDALETAARVEGLSLDISVHSHLQ
ILDEEHSKGYHHGLSVLKPFRRTTKHQHPVDNAGLFSYMTFSWLSPLARVVHKKGELLMEDVWPLSKYE
SSDVNSRRLERLWQEELNEVGPDAASLRRVWVIFCRTRLILSIVCLMITQLAGFSGPNFQDGCILRSE

TRTRPLE - GFP Tag - V

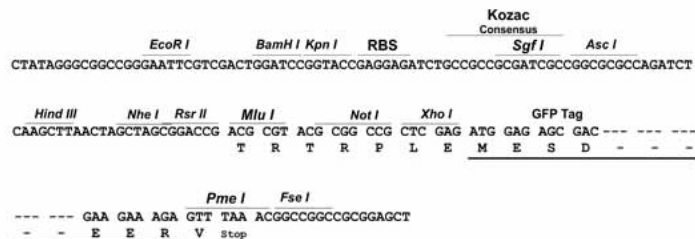
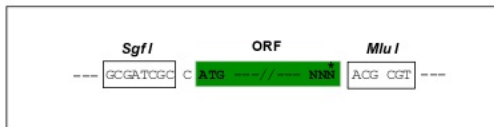
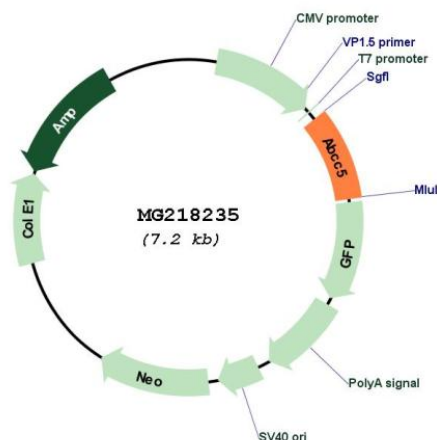
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

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

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]