

## Product datasheet for MR211987

### Abcc5 (NM\_013790) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Abcc5 (NM_013790) 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:	>MR211987 representing NM_013790 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGATATTGACATGGGAAAAGAATATATCATCCCCAGCCCTGGGTACAGAAGTGACAGGGACAGAA  
GCGCTGTACCAGGGCAACACAGAGACCCCGAGGAACCCAGGTTCCGGAGAACAAGATCGTTGGAATGCCA  
AGATGCTCTCGAAACAGCAGCCCGAGTTGAGGGGCTTCCCTGGATATCTCTGTGCATTCTCATCTCCAA  
ATTCTGGACGAGGAGCATTCTAAGGAAAATACCACCATGGTTTAAAGTCTCTGAAGCCCTCCGGACCA  
CTACCAAGCACCAGCACCAGTGGACAATGCTGGACTTTTCTCCTACATGACCTTTTCATGGCTCTCTCC  
TCTGGCCCGAGTGGTTCACAAGAAGGGGAGCTGTTAATGGAGGATGTGTGGCCTTTGTCCAAGTATGAG  
TCTTCTGATGTGAACAGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGAAGTTGGGCCAGACG  
CTGCCTCCCTGCGAAGGGTTGTGTGGATCTTTGCCGCACCAGGCTCATCCTGTCCATCGTGTGCCTGAT  
GATCACGCAGTTGGCTGGCTTCACTGGACCAGCCTTCGTGGTGAAGCACCTTTGGAGTACACCCAGGCA  
ACAGAGTCAACCTGCAGTACAGCTTGTGTAGTGTAGGCCTACTCCTGACAGAAGTTGTACGCCTCT  
GGTCACTTGCACTGACTTGGGCATTGAATTATCGAACTGGTGTCCGGTTGCGGGGGGCTATCCTGACTAT  
GGCATTCAAGAAGATCCTGAAGTTAAAGAACATTAAGAAAAGTCCCTAGGGGAGCTCATCAATATCTGC  
TCCAATGATGGGCAAAGGATGTTTGAGGCAGCCGCTGTGGCAGCTTGTGGCTGGAGGACCTGTTGTTG  
CCATCTTGGGCATGATTTATAATGTAATCATCCTAGGACCCACGGCTTCCCTGGGATCAGCGGTTTTTAT  
CCTCTTTTATCCAGCAATGATGTTCTGTGTACGGCTAACTGCATATTTTCAGGAGAAAAGTGTGAGCTGCC  
ACAGATGACCGTGTCCAGAAGATGAATGAAGTTCTTACCTACATTAATTCATTAATTAATGTATGCCTGGG  
TCAAAGCGTTTTCTCAGTGTGTGCAAAAAATCCGAGAGGAGGAACGTCGGATATTGGAGAAAAGCCGGGTA  
CTTTTCAGAGCATCACTGTTGGAGTGGCTCCTATTGTGGTGTGATCGCCAGTGTGGTGTGACGTTCTCCGT  
CACATGACCTGGGCTTCCATCTGACTGCGGCACAGGCCCTCACAGTGGTACTGTCTTCAATTCATGA  
CTTTTGTCTTAAAGTAACACCATCTCAGTGAAGTCCCTCTCTGAAGCATCAGTGGCTGTTGACAGATT  
TAAGAGTTTGTCTAATGGAAGAGTTCACATGATAAAGAACAACCGCCAGTCTCATCAAGATA



[View online >](#)

GAGATGAAAAATGCCACCTTGGCATGGGACTCCTCCCCTCCAGTATACAGAAGCTCGCCCAAGCTGACCC  
CCAAAAAGAAAAAGACAAGAGGGCTACCAGGGCAAGAAAGAGAAGTCGAGGCAGCTGCAACACTGA  
GCACCAGGCGGTGCTGGCAGAACAGAAAGGACCTCCTCCTGGACAGTGACGAGCGGCCAGCCCGGAA  
GAGGAAGAAGGCAAGCAGATCCACACAGGGAGCCTGCGCCTGCAGAGGACTGTACAACATTGACTTAG  
AAATTGAAGAGGGCAACTGGTTGGAATCTGCGGCAGTGTGGAAAGTGGAAAACTCTCTCGTTTCAGC  
CATTTTAGGCCAGATGACGCTTTTGGAGGGCAGCATTGCCGTAGTGGGACCTTTGCTTATGTGGCCAA  
CAGGCCTGGATTCTCAATGCCACTCTGAGAGACAACATTCTTTGGGAAGGAATTTGATGAAGAGAGAT  
ACAACCTAGTGCCTGAATAGCTGCTGCCTGCGGCCCTGACTTGGCCATTCTCCCAACAGCGACCTGACTGA  
GATTGGAGAGCGAGGAGCCAACCTGAGTGGTGGACAGCGCCAGAGAATCAGCCTTCTAGAGCCTTGTAC  
AGTGATAGAAGCATCTACATCCTGGATGACCCCTCAGTGCCTTAGATGCCCATGTGGGCAACCACATCT  
TCAACAGTGCTATCCGGAAGCGCCTCAAGTCTAAGACGGTTCTGTTTGTACACACCAGTTACAGTATCT  
GGTCGATTGTGATGAGGTGATCTTCATGAAGGAAGGCTGTATCACAGAGAGAGGTACCCATGAGGAGCTG  
ATGAACCTAAATGGGGATTACGCTACGATTTTTAATAACCTGTTGCTGGGAGAGACACCCCAAGTTGAGA  
TTAATTCGAAAAAGGAAGCTACTGGTTCACAAAAATCACAAGACAAGGGCCCTAAGCCAGGGTCAGTGAA  
GAAGGAGAAGGCGGTGAAGTCGGAGGAAGGGCAGCTTGTGCAGGTGGAGGAGAAAGGGCAAGGTTCTGTG  
CCTTGGTCAGTCTACTGGTCTACATCCAGGCTGCAGGGGGCCCTTGGCTTTCCTGGTCATCATGGTCC  
TCTTCATGCTGAATGTGGGCAGCACTGCCTTCAGCACCTGGTGGCTTAGCTACTGGATCAAGCAAGGAAG  
CGGAAACAGCACAGTGTATCAAGGGAACAGAAGCTTCGTGAGTGACAGCATGAAGGACAACCCCTTCATG  
CAGTACTACGCCAGCATCTACGCCCTCTCCATGGCAGTCATGCTGATCTTGAAAGCCATTCGAGGAGTTG  
TCTTCGTCAAGGGCACACTGAGAGCCTCCTCCCGGCTCCATGATGAGCTATTCGAAGGATCCTTAGGAG  
CCCCATGAAGTTTTTTGATACTACCCCAACAGGAAGGATTCTCAACAGGTTTTTCAAAGACATGGATGAA  
GTGGATGTGCGGCTGCCGTTCCAGGCTGAGATGTTTATCAGAATGTAATCCTGGTGTCTCTCTGTTG  
GAATGATTGCTGGAGTCTCCCATGGTTCCTCGTGGCGGTGGGCCTCTCCTCATCCTCTCTACTTCT  
CCACATTGCTCCAGGGTCTGATTTCGTGAGCTAAAGCGGTTGGACAATATCACGCAGTCTCCTTTCCTC  
TCCACATCACGTCTAGCATTACGGGCCTGGCCACCATCCATGCCTACAACAAAAGGCAGGAGTTTTTAC  
ACAGGTATCAGGAGCTCCTGGATGACAACCAGGCTCCCTTTTTCTGTTACCTGTGCAATGAGGTGGCT  
GGCAGTGCGGCTGGACCTCATCAGCATTGCCCTGATTACCACCACTGGCCTGATGATTGTTCTCATGCAT  
GGACAGATCCCTTCAGCCTATGCGGGGCTTCCATCTCCTACGCTGTGCAGTTAACTGGACTATTCCAGT  
TCACCGTCAGACTGGCATCGGAGACAGAAGCACGGTTCCTTCCGTGGAGAGGATCAACCACTATATCAA  
GACTCTCTCTTTGGAAGCACCTGCCAGAATCAAGAACAAGGCTCCTCCCATGACTGGCCCCAGGAGGGA  
GAAGTAACCTTTGAGAATGCAGAAATGAGATACCGGGAAAATCTCCCTCTGGTCTTAAGAAAGTGCCT  
TCACCATCAAGCCAAGGAAAAGATAGGCATTGTGGGACGAACAGGGTCAGGGAAGTCTCTTTGGGGAT  
GGCCCTCTTCCGTCTGGTGGAGCTATCTGGAGGCTGCATCAAGATTGATGGAATAAGAATCAGTGACATC  
GGCCTGGCCGACCTCCGAAGCAAACCTGGCCATCATTCTCAGGAGCCAGTGTCTCAGTGGCACTGTCA  
GATCAAACCTGGACCTTTCAACCAGTACACGGAAGACCAGATCTGGGATGCTCTAGAGAGAACGCACAT  
GAAGGAATGTATTGCCAGCTACCTCTGAAACTTGAGTCTGAAGTAATGGAGAACGGGACAACCTTCTCT  
GTTGGGAACGGCAGCTGTTGTGCATAGCAAGAGCCCTGCTGCGTCACTGAAGATTCTGATTTTAGATG  
AAGCTACAGCCGCTATGGACACAGAGACAGACTTACTGATCCAGGAGACCATCCGGAAGCATTTCGGA  
CTGCACCATGCTGACCATTGCCATCGCCTGCACACAGTTCTGGGCTCTGACAGGATCATGGTGTGGCC  
CAGGGACAGGTGGTGGAGTTTGACACCCCATCGTCTTCTGTCTAATGACAGTTCAAGATTCTATGCCA  
TGTTTGTCTGCAGAGAACAGGTGGCTGTCAAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_013790.2](#), [NP\\_038818.2](#)

**RefSeq Size:** 5826 bp

**RefSeq ORF:** 4311 bp

**Locus ID:** 27416

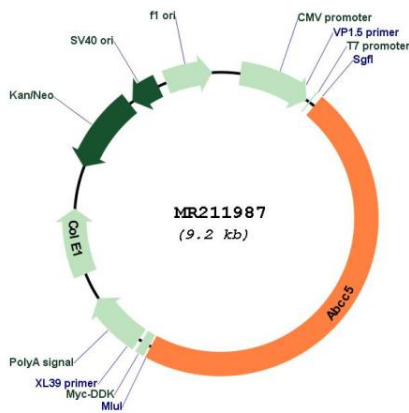
**UniProt ID:** [Q9R1X5](#)

**Cytogenetics:** 16 12.41 cM

**MW:** 161.6 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 MR211987