

Product datasheet for **MC224446**

Abcc5 (NM_013790) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc5 (NM_013790) 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: >MC224446 representing NM_013790
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAAGATATTGACATGGGAAAAGAATATATCATCCCCAGCCCTGGGTACAGAAGTGACAGGGACAGAA
 GCGCTGTACCAGGGCAACACAGAGACCCCGAGGAACCCAGGTTCCGGAGAACAAGATCGTTGGAATGCCA
 AGATGCTCTCGAAACAGCAGCCCGAGTTGAGGGGCTTTCCCTGGATATCTCTGTGCATTCTCATCTCCAA
 ATTCTGGACGAGGAGCATTCTAAGGGAAAATACCACCATGGTTTAAAGTGTCTGAAGCCCTCCGGACCA
 CTACCAAGCACCAGCACCAGTGGACAATGCTGGACTTTTCTCCTACATGACCTTTTCATGGCTCTCTCC
 TCTGGCCCGAGTGGTTCACAAGAAGGGGAGCTGTTAATGGAGGATGTGTGGCCTTTGTCCAAGTATGAG
 TCTTCTGATGTGAACAGCAGAAGACTAGAGAGACTGTGGCAAGAAGAGCTGAATGAAGTTGGGCCAGACG
 CTGCCTCCCTGCGAAGGGTTGTGTGGATCTTTTGCCGCACCAGGCTCATCCTGTCCATCGTGTGCCTGAT
 GATCACGCAGTTGGCTGGCTTCAAGTGGACCAGCCTTCGTGGTGAAGCACCTTTGGAGTACACCCAGGCA
 ACAGAGTCTAACCTGCAGTACAGCTTGTGTAGTGTAGGCTACTCCTGACAGAAGTTGTACGCTCCT
 GGTCACCTTGCACTGACTTGGGCATTGAATTATCGAACTGGTGTCCGGTTGCGGGGGGCTATCCTGACTAT
 GGCATTCAAGAAGATCCTGAAGTTAAAGAACATTAAGAAAAGTCCCTAGGGGAGCTCATCAATATCTGC
 TCCAATGATGGGCAAAGGATGTTTGAGGACGCCGCTGTGGGCAGCTTGCTGGCTGGAGGACCTGTTGTTG
 CCATCTTGGGCATGATTTATAATGTAATCATCCTAGGACCCACGGGCTTCTGGGATCAGCGTTTTTAT
 CCTCTTTTATCCAGCAATGATGTTTCGTGTACGGCTAACTGCATATTTACAGGAGAAAGTGTGTAGCTGCC
 ACAGATGACCGTGTCCAGAAGATGAATGAAGTTCTTACCTACATTAATTCATTAATGATGCCTGGG
 TCAAAGCGTTTTCTCAGTGTGTGCAAAAAATCCGAGAGGAGGAACGTCGGATATTGGAGAAAACCGGGTA
 CTTTCAGAGCATCACTGTTGGAGTGGCTCCTATTGTGGTAGTGATCGCCAGTGTGGTACGTTCTCCGTT
 CACATGACCTGGCTTCCATCTGACTGCGGCACAGGCCTTACAGTGGTACTGTCTTCAATTCCATGA
 CTTTTGCTTTAAAAGTAACACCATTTCTCAGTGAAGTCCCTCTCTGAAGCATCAGTGGCTGTTGACAGATT
 TAAGAGTTTGTCTAATGGAAGAGGTTACATGATAAAGAACAACCGGCCAGTCTCACATCAAGATA
 GAGATGAAAAATGCCACCTTGGCATGGGACTCCTCCCACTCCAGTATACAGAACTCGCCCAAGCTGACCC



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CCAAAATGAAAAAGACAAGAGGGCTACCAGGGCAAGAAAGAGAAGTCGAGGCAGCTGCAACACTGA
 GCACCAGCGGTGCTGGCAGAACAGAAAGGACCTCCTCCTGGACAGTGACGAGCGGCCAGCCGGAA
 GAGGAAGAAGGCAAGCAGATCCACACAGGGAGCCTGCGCCTGCAGAGGACACTGTACAACATTGACTTAG
 AAATTGAAGAGGGCAAACCTGGTTGGAATCTGCGGCAGTGTGGAAAGTGGAAAAACCTCTCTCGTTTCAGC
 CATTAGGCCAGATGACGCTTTTGGAGGGCAGCATTGCCGTAGTGGGACCTTTGCTTATGTGGCCAA
 CAGGCCGATTCTCAATGCCACTCTGAGAGACAACATTCTTTGGGAAGGAATTTGATGAAGAGAGAT
 ACAACTCAGTGTGAATAGCTGCTGCCTGCGCCTGACTTGGCCATTCTCCCAACAGCAGCCTGACTGA
 GATTGGAGAGCGAGGAGCCAACCTGAGTGGTGGACAGCGCCAGAGAATCAGCCTTGCTAGAGCCTTGATAC
 AGTGATAGAAGCATCTACATCCTGGATGACCCCTCAGTGCCTTAGATGCCCATGTGGGCAACCACATCT
 TCAACAGTGTATCCGGAAGCGCCTCAAGTCTAAGACGGTTCTGTTTGTACACACCAGTTACAGTATCT
 GGTGATGTGATGAGGTGATCTTCATGAAGGAAGGCTGTATCACAGAGAGAGGTACCCATGAGGAGCTG
 ATGAACCTAAATGGGGATTACGCTACGATTTTTAATAACCTGTTGCTGGGAGAGACACCCCAAGTTGAGA
 TTAATTCGAAAAAGGAAGCTACTGGTTCACAAAAATCACAAGACAAGGGCCCTAAGCCAGGGTCAGTGAA
 GAAGGAGAAGGCGGTGAAGTCGGAGGAAGGGCAGCTTGTGCAGGTGGAGGAGAAAGGGCAAGGTTCTGTG
 CCTTGGTCAGTCTACTGGTCTACATCCAGGCTGCAGGGGGCCCTTGGCTTTCTGGTCATCATGGTCC
 TCTTCATGCTGAATGTGGGCAGCACTGCCTTCAGCACCTGGTGGCTTAGCTACTGGATCAAGCAAGGAAG
 CGGGAACAGCACAGTGTATCAAGGGAACAGAAGCTTCGTGAGTGACAGCATGAAGGACAACCCCTTCATG
 CAGTACTACGCCAGCATCTACGCCCTCTCCATGGCAGTCATGCTGATCTTGAAAGCCATTCGAGGAGTTG
 TCTTCGTCAGGGGCACACTGAGAGCCTCCTCCGGCTCCATGATGAGCTATTCGAAGGATCCTTAGGAG
 CCCCATGAAGTTTTTGTACTACCCCAACAGGAAGGATTCTCAACAGGTTTTTCAAAGACATGGATGAA
 GTGGATGTGCGGCTGCCGTTCCAGGCTGAGATGTTTATCAGAATGTAATCCTGGTGTCTTCTGTGTTG
 GAATGATTGCTGGAGTCTTCCCATGGTTCCTCGTGGCGGTGGGCGCTCCTCATCTCTTCTACTTCT
 CCACATTGTCTCAGGGTCTGATTCGTGAGCTAAAGCGTTGGACAATATCACGCAGTCTCCTTTCCCTC
 TCCCACATCACGTCTAGCATTACGGGCTGGCCACCATCCATGCCTACAACAAAAGGCAGGAGTTTTTAC
 ACAGGTATCAGGAGCTCCTGGATGACAACCAGGCTCCCTTTTTCTGTTACCTGTGCAATGAGGTGGCT
 GGCAGTGCAGGCTGGACCTCATCAGCATTGCCCTGATTACCACCACTGGCCTGATGATTGTTCTCATGCAT
 GGACAGATCCCTCAGCCTATGCGGGGCTGCCATCTCTACGCTGTGCAGTAACTGGACTATTCCAGT
 TCACCGTCAGACTGGCATCGGAGACAGAAGCACGGTTCCTTCCGTGGAGAGGATCAACCACTATATCAA
 GACTCTCTCTTTGGAAGCACCTGCCAGAATCAAGAACAAGGCTCCTCCCATGACTGGCCCCAGGAGGGA
 GAAGTAACCTTTGAGAATGCAGAAATGAGATACCGGGAAAATCTCCCTCTGGTCTTAAGAAAGTGTCT
 TCACCATCAAGCCCAAGGAAAAGATAGGCATTGTGGGACGAACAGGGTCAGGGAAGTCTCTTTGGGGAT
 GGCCCTCTCCGTCTGGTGGAGCTATCTGGAGGCTGCATCAAGATTGATGGAATAAGAATCAGTGACATC
 GGCTGGCCGACCTCCGAAGCAAACCTGGCCATCATTCTCAGGAGCCAGTGTCTCAGTGGCACTGTCA
 GATCAAACCTGGACCTTTCAACCAGTACACGGAAGACCAGATCTGGGATGCTCTAGAGAGAACGCACAT
 GAAGGAATGTATTGCCAGCTACCTCTGAAACTTGAGTCTGAAGTAATGGAGAACGGGACAACCTTCTCT
 GTTGGGGAACGGCAGCTGTTGTGCATAGCAAGAGCCCTGCTGCGTCACTGTAAGATTCTGATTTTAGATG
 AAGCTACAGCCGCTATGGACACAGAGACAGACTTACTGATCCAGGAGACCATCCGGGAAGCATTGCGGA
 CTGCACCATGCTGACCATTGCCATCGCCTGCACACAGTCTGGGCTCTGACAGGATCATGGTGTGGCC
 CAGGGACAGGTGGTGGAGTTTGACACCCCATCGGTCTTCTGTCTAATGACAGTTCAAGATTCTATGCCA
 TGTTTGTCTGCAGAGAACAAGGTGGCTGTCAAGGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_013790
Insert Size: 4311 bp

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 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](#)

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

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]
 Transcript Variant: This variant (1) is the longer transcript and encodes the longer isoform (1).