

## Product datasheet for **MC224154**

### Abcc4 (NM\_001163675) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Abcc4 (NM\_001163675) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Abcc4  
**Synonyms:** ABCC4-N1; D630049P08Rik; MOATB; MRP4  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224154 representing NM\_001163675  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTCTCAGTGCTTCCAGAAGATCGCTCAAAGCACCTCGGAGAGGAGCTTCAACGGTACTGGGATAAAG  
 AACTTCTGCGAGCAAGAAGGACTCGAGGAAGCCCTCCTTAACAAAGGCAATCATAAAGTGTACTGGAA  
 GTCTTACCTGATTTTGGGAATTTTACGTTAATTGAGGAGGGCACTCGAGTAGTTCAGCCCTATTTTTA  
 GGGAAAATTATTGAATATTTGAGAAGTATGACCCCGAGGACTCGGTGGCTTTGCATACAGCTTATGGCT  
 ACGCAGCAGTGCTGTCCATGTGCACGCTCATCCTGGCCATACTACATCATTTGTACTTCTACCACGTGCA  
 GTGCGCCGGGATGAGGCTGCGGGTTGCCATGTGCCACATGATTTACCGGAAGGCACTCCGGTTAAGTAAC  
 TCGGCCATGGGGAAGACAACCACAGGCCAGATAGTTAACCTGCTGTCCAACGACGTGAACAAATTCGACC  
 AAGTGACAATCTTCTTGCATTTCTGTGGGCAGGGCCGCTGCAGGCCATCGCGGTAACCGTCCCTCTG  
 GGTGGAGATAGGAATCTCCTGCCTGGCGGGCTTGGCCGTTCTGGTTATTCTTCTGCCTCTGCAAAGCTGC  
 ATCGGGAAGCTGTTCTCGTCACTGCGGAGTAAACTGCGGCTTTCACGGATGCCAGGATCCGGACCATGA  
 ATGAAGTCATAACAGGCATGAGGATAATAAAGATGTATGCGTGGGAGAAATCGTTTGTGACCTCATTGC  
 CAATCTGAGAAAAGGAGATTTCCAAGATTCTGGGCAGCTCCTACCTCAGAGGGATGAACATGGCGTGC  
 TTTTTCATCGAAACAAAGTCATCCTGTTCTGACCTTCACTAGTACGTGCTGCTTGGCAATGAGATTA  
 CAGCTAGCCACGTGTTTGTGGCCATGACTCTGTACGGTGCCTTCCGTTGACAGTACCCTCTTCTTCCC  
 GTCAGCCATTGAGAGAGGGTCAGAGGCCATCGTCAGCATTGAGGATCAAGAATTTCTGTTACTCGAT  
 GAACTACCACAGCGCAAAGCCCATGTACCATCTGATGGCAAAGCCATTGTCCACGTGCAAGATTTACC  
 CTTTCTGGGACAAGGCACTAGACAGTCCAACCCTGCAAGGCTTTCTTTATTGCCAGGCTGGTGAGTT  
 GTTAGCCGTGGTTGGCCAGTTGGAGCAGGCAAGTCGTCGCTGTTGAGCGCAGTGTGGGTGAGCTGCCT  
 CCTGCCAGCGGGCTGGTCAGCGTGCACGGGAGGATCGCCTACGTTTCTCAGCAGCCCTGGGTGTTCTCGG  
 GCACCGTGAGGAGCAATATTTTATTTGGGAAGAAATATGAGAAGGAGCGATATGAGAAAGTGATCAAGGC  
 CTGTGCTCTGAAGAAGGACCTGCAGCTTCTGGAGGACGGGATCTGACGGTTATAGGAGACCGGGGAGCC  
 ACGCTGAGTGGAGGCCAGAAAGCTCGGGTGAACCTGGCACGGGCCGCTACCAGGACGCCGACATCTACC



TCCTTGATGATCCGCTCAGCGCTGTCGATGCAGAAGTGGGCAAGCACCTGTTCCAAGTGTGTATCTGTCA  
GGCGTTGCACGAGAAGATCACCATTTTAGTGACTCACCAGTTACAGTACCTCAAAGCTGCAAGCCACATC  
CTCATACTCAAAGATGGTGAGATGGTGCAGAAGGGGACTTACACGGAGTTTCTGAAATCTGGTGTAGATT  
TTGGCTCCCTGTTAAAGAAAGAAAACGAGGAAGCAGAGCCCTCCACAGCCCCAGGAACCCCGACTCAG  
GAAACGAACCTTCTCCGAGGCCCAATTTGGTCTCAGCAGTATCCAGACCCTCGTTGAAAGACGGGGCC  
CCAGAGGGCCAAGACGCAGAGAACACGCAGGCAGTGAACCCGAGGAGAGCCGTTCCGGAAGGAGAATCG  
GCTTCAAGGCCTACAAGAATTACTTCTCGGCGGGCCATCCTGGTCTTTCATCATTTTCTTGTGCTGCT  
TAACATGGTGGCCAGGTTTTCTATGTTCTCAGGACTGGTGGCTTCCCACTGGGCGAACAAGCAAGGT  
GCACTGAACAACACCAGAAATGCGAATGAAATAAACGAGACCTAGACCTCAGCTGGTACTTAGGAA  
TTTACGCAGGTCTAACTGCGGTACCCGCTCTTTTGGCATAGCGAGATCCCTACTGGTGTCTATATCCT  
TGTGAACGCTTCCAGACTTTGCACAACAGGATGTTTGTGAGTCCATACTGAAGGCTCCCGTGTGTTCTC  
GACAGAAATCCAATCGGGAGGATTTTAAATCGTTTCTCAAAGACATCGGACACATGGATGATTTGCTTC  
CCCTGACGTTCTGGACTTCATCCAGACGTTGCTCCTCGTCGTAAGTGTGATCGCTGTGGCCGCGCCGT  
GATCCCTGGATCCTCATACCATTGGTTCGCTCTCAGTCGTCTTCTGGTCTTCGGAGATACTTCTTA  
GAGACGTCACGGGATGTCAAGCGCTGGAATCCACAACACGGAGCCCGTATTCTCCATTTATCGTCCT  
CCCTCCAGGGACTCTGGACCATCCGGGCTTACAAGCTGAGGAGAGGTGTGAGGAGCTGTTGATGCACA  
CCAGGACTTGCAATCAGAGGCTTGGTCTTGTTCCTGACGACATCGAGATGGTTCGCTGTGCGTCTGGAC  
GCCATCTGCGCCATCTTTGTAATCGTCGTTGCCTTCGGGTCCTTGTCTGGCGAAGACTTTGAATGCTG  
GGCAGGTTGGCCTGGCCTGTCTACGCCCTCACACTCATGGGATGTTCCAGTGGTCTGTGCGACAGAG  
CGCCGAAGTAGAGAATATGATGATTTAGTGGAGAGAGTATTGAGTACACGGACCTAGAGAAGGAGGCG  
CCTTGGGAGTGAAGAAGCGCCACCCAGGCTGGCCCCACGAGGGAGTATCGTCTTCGACAATGTGA  
ACTTCACTACAGCTTAGATGGGCTCTGGTCTGAAGCACCTGACTGCGCTCATCAAGTCCAGGGAAAA  
GGTTGGAATTGTGGCAGAACCGGAGCTGGGAAAAGCTCCCTCATCTCGGCCCTTTCAGGCTGTGAGAA  
CCCGAGGGGAAAAATCTGGATCGATAAGATCTTGACAACCGAAATTTGGGCTTACAGACTTAAGGAAGAAA  
TGCAATCATACCACAGGAACCTGTTCTGTTCACTGGAACCATGAGGAAAAACCTGGACCCCTTCAATGA  
GCACACGGACGAGGAGCTGTGGAGGGCCTTGGAGGAGGTACAACCTAAAGAGGCCATTGAAGATCTTCT  
GGAAAAATGGATACTGAATTAGCAGAATCTGGATCCAATTTAGTGTGGACAGAGACAGTTAGTGTGCC  
TTGCAAGGGCCATTCTAAAGAATAACCGAATACTGATCATTGATGAAGCAACTGCAAATGTGACCCAAAG  
AACGGATGAGTTAATAACAACAGAAGATCCGGGAGAAGTTGCCCAGTGCACAGTGTCTCACCATTGCTCAC  
AGACTGAACACCATCATTGACAGTGACAAGATAATGGTTTTGGATTGAGGAAGACTGAAAGAATATGATG  
AGCCGTATGTCTTGTGCAAGATCCAGAGAGCCTTTTTACAAGATGGTTCAGCAACTGGCAAGGGCGA  
AGCCGCTGCCCTACCGAAACAGCAAAACAGGTATACTTCAGACGGAATTACCCAGATATTACATTCACC  
AGCCCCGCGGTTATGAACACCTCAATGGACAGCCCTCGGCTTAAACAATATTTGAACAGCATTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001163675
- Insert Size:** 3849 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).
- 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\\_001163675.1](#), [NP\\_001157147.1](#)

**RefSeq Size:** 5711 bp

**RefSeq ORF:** 3849 bp

**Locus ID:** 239273

**UniProt ID:** [Q3TZN9](#)

**Cytogenetics:** 14 E4

**Gene Summary:** ATP-dependent transporter of the ATP-binding cassette (ABC) family that actively extrudes physiological compounds and xenobiotics from cells. Transports a range of endogenous molecules that have a key role in cellular communication and signaling, including cyclic nucleotides such as cyclic AMP (cAMP) and cyclic GMP (cGMP), bile acids, steroid conjugates, urate, and prostaglandins. Mediates also the ATP-dependent efflux of glutathione conjugates such as leukotriene C4 (LTC4) and leukotriene B4 (LTB4). The presence of GSH is necessary for the ATP-dependent transport of LTB4, whereas GSH is not required for the transport of LTC4. Mediates the cotransport of bile acids with reduced glutathione (GSH). Transports a wide range of drugs and their metabolites, including anticancer, antiviral and antibiotics molecules (Probable). Confers resistance to anticancer agents (Probable).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.