

Product datasheet for **MC224076**

Abcc4 (NM_001163676) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc4 (NM_001163676) 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: >MC224076 representing NM_001163676
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCCGGTGCACACCGAGGTGAAACCAACCCGCTGCAGGACGCCAACCTCTGCTCGCGGTGTTCT
 TCTGGTGGCTCAACCCGCTGTTTAAAACGTGTCATAAGCGGAGACTGGAAGAAGATGACATGTTCTCAGT
 GCTTCCAGAAGATCGCTCAAAGCACCTCGGAGAGGAGCTTCAACGGTACTGGGATAAAGAACTTCTGCGA
 GCCAAGAAGGACTCGAGGAAGCCCTCCTTAACAAAGGCAATCATAAAGTGTACTGGAAGCTTACCTGA
 TTTTGGGAATTTTACGTTAATTGAGGCACTCCGGTTAAGTAACTCGGCCATGGGGAAGCAACCCACAGG
 CCAGATAGTTAACCTGCTGTCCAACGACGTGAACAAATTCGACCAAGTGACAATCTTCTTGCACCTTCTG
 TGGGCAGGGCCGCTGCAGGCCATCGCGTAACCGTCTCCTCTGGGTGGAGATAGGAATCTCCTGCCTGG
 CGGGCTTGGCCGTTCTGTTATTCTTCTGCCTCTGCAAAGCTGCATCGGGAAGCTGTTCTCGTCACTGCG
 GAGTAAAACGCGCTTTCACGGATGCCAGGATCCGGACCATGAATGAAGTCATAACAGGCATGAGGATA
 AATAAGATGTATGCGTGGGAGAAATCGTTTGTGACCTCATTGCCAATCTGAGAAAAGAGGATTTCCA
 AGATTCTGGGCAGCTCCTACCTCAGAGGGATGAACATGGCGTCGTTTTTCATCGCAAACAAAGTCATCCT
 GTTCGTGACCTTCACTAGCTACGTGCTGCTTGGCAATGAGATTACAGCTAGCCACGTGTTTGTGGCCATG
 ACTCTGTACGGTCCGTTTCGTTGACAGTCAACCTCTTCTTCCGTCAGCCATTGAGAGAGGGTCAGAGG
 CCATCGTCAGCATTTCGGAGGATCAAGAATTTCTGTTACTCGATGAACTACCACAGCGCAAAGCCCATGT
 ACCATCTGATGGCAAAGCCATTGTCACGTGCAAGATTTACCGCTTTCTGGGACAAGGCACTAGACAGT
 CCAACCTGCAAGGTCTTTCCTTTATTGCCAGGCCTGGTGAAGTTGTTAGCCGTGTTGGCCAGTTGGAG
 CAGGCAAGTCGTCGCTGTTGAGCGCAGTCTGGGTGAGCTGCCTCCTGCCAGCGGGCTGGTCAGCGTGCA
 CGGAGGATCGCCTACGTTTCTCAGCAGCCCTGGGTGTTCTCGGGCACCGTGAGGAGCAATATTTTATTT
 GGAAGAATATGAGAAGGAGCGATATGAGAAAGTGATCAAGGCCTGTGCTCTGAAGAAGGACCTGCAGC
 TTCTGGAGGACGGGGATCTGACGTTATAGGAGACCGGGAGCCACGCTGAGTGGAGGCCAGAAAGCTCG
 GGTGAACCTGGCAGGGCCGCTACCAGGACGCCGACATCTACCTCCTTGATGATCCGCTCAGCGTGTG
 GATGCAGAAGTGGCAAGCACCTGTTCAAACCTGTGTATCTGTCAGGCGTTGCACGAGAAGATCACCAATT



TAGTGACTCACCAGTTACAGTACCTCAAAGCTGCAAGCCACATCCTCATACTCAAAGATGGTGAGATGGT
 GCAGAAGGGGACTTACACGGAGTTTCTGAAATCTGGTGTAGATTTTGGCTCCCTGTTAAAGAAAGAAAAC
 GAGGAAGCAGAGCCCTCCACAGCCCCAGGAACCCGACACTCAGGAAACGAACCTTCTCCGAGGCCCTCAA
 TTTGGTCTCAGCAGTCATCCAGACCCTCGTTGAAAGACGGGGCCCCAGAGGGCCAAGACGCAGAGAACAC
 GCAGGCAGTGAACCCGAGGAGAGCCGTTCCGGAAGGGAGAATCGGCTTCAAGGCCTACAAGAATTACTTC
 TCGGGGGGCGCATCCTGGTTCTTCATCATTTTCTTGTGCTGCTTAACATGGTGGCCAGGTTTTCTATG
 TTCTTCAGGACTGGTGGCTTTCCCACTGGGCGAACAAGCAAGGTGCACTGAACAACACCAGAAATGCGAA
 TGGAAATAAACGGAGACCCTAGACCTCAGCTGGTACTTAGGAATTTACGAGGTCTAACTGCGGTCAAC
 GTCCTTTTTGGCATAGCGAGATCCCTACTGGTGTCTATATCCTTGTGAACGCTTCCAGACTTTGCACA
 ACAGGATGTTGAGTCCATACTGAAGGCTCCCGTGTGTTCTTCGACAGAAATCCAATCGGGAGGATTTT
 AAATCGTTTTCTCAAAGACATCGGACACATGGATGATTTGCTTCCCCTGACGTTCTGGACTTCATCCAG
 ACGTTGCTCCTCGTCGTAAGTGTGATCGCTGTGGCCGCGCCGCTGATCCCTTGGATCCTCATACCATTGG
 TTCGCTCTCAGTCGCTTCTGGTTCTTCGGAGATACTTCTAGAGACGTCACGGGATGTCAAGCGCCT
 GGAATCCACAACCGGAGCCCGTATTCTCCATTTATCGTCTCCCTCCAGGGACTCTGGACCATCCGG
 GCTTACAAGCTGAGGAGAGGTGTCAGGAGCTGTTTGATGCACACCAGGACTTGCAATCAGAGGCTTGGT
 TCTTGTTCCTGACGACATCGAGATGGTTGCTGTGCGTCTGGACGCCATCTGCGCCATCTTTGTAATCGT
 CGTTGCCCTTCGGGTCCCTTGTCTGGCGAAGACTTTGAATGCTGGGCAGGTTGGCCTGGCCTTGCTCTAC
 GCCCTCACACTCATGGGGATGTTCCAGTGGTCTGTGCGACAGAGCGCCGAAGTAGAGAATATGATGATTT
 CAGTGGAGAGAGTGATTGAGTACACGGACCTAGAGAAGGAGGCGCCTTGGGAGTGAAGAAGCGCCACC
 CCCAGGCTGGCCCCACGAGGGAGTCATCGTCTTCGACAATGTGAACCTACCTACAGCTTAGATGGGCT
 CTGTTCTGAAGCACCTGACTGCGCTCATCAAGTCCAGGAAAAGGTTGGAATTTGGGCAGAACCGGAG
 CTGGGAAAAGCTCCCTCATCTCGGCCCTTTCAGGCTGTCAGAACCCGAGGGGAAAATCTGGATCGATAA
 GATCTTGACAACCGAAAATGGGCTTACGACTTAAGGAAGAAAATGTCAATCATACCACAGGAACCTGTT
 CTGTTCACTGGAACCATGAGGAAAAACCTGGACCCTTCAATGAGCACAGGACGAGGAGCTGTGGAGGG
 CCTTGGAGGAGGTACAATTAAGAGGCCATTGAAGATCTTCTGAAAAATGGATACTGAATTAGCAGA
 ATCTGGATCCAATTTAGTGTGGACAGAGACAGTTAGTGTGCTTGAAGGGCCATTCTAAAGAATAAC
 CGAATACTGATCATTGATGAAGCAACTGCAAAATGTGGACCAAGAACGGATGAGTTAATACAACAGAAGA
 TCCGGGAGAAGTTTGGCCAGTGCACAGTGTCCACCATTGCTCACAGACTGAACACCATCATTGACAGTGA
 CAAGATAATGGTTTTGGATTGAGGAAGACTGAAAGAATATGATGAGCCGATGTCTTGTGCAGAATCCA
 GAGAGCCTCTTTACAAGATGGTTGAGCAACTGGGCAAGGGCGAAGCCGCTGCCCTCACCGAAACAGCAA
 AACAGGTATACTCAGACGGAATTACCCAGATATTACATTCACCAGCCCCGCGTTATGAACACCTCCAA
 TGGACAGCCCTCGGCCTTACAATATTTGAAACAGCATTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001163676

Insert Size:

3753 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_001163676.1](#), [NP_001157148.1](#)

RefSeq Size: 5504 bp

RefSeq ORF: 3753 bp

Locus ID: 239273

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 (3) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.