

## Product datasheet for **MR215338**

### Abcc4 (NM\_001033336) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Abcc4 (NM\_001033336) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Abcc4  
**Synonyms:** ABCC4-N1; D630049P08Rik; MOATB; MRP4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR215338 representing NM\_001033336  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGCTGCCGGTGACACCCGAGGTGAAACCAACCCGCTGCAGGACGCCAACCTCTGCTCGCGGTGTTCT  
TCTGGTGGCTCAACCCGCTGTTTAAACTGGTCATAAGCGGAGACTGGAAGAAGATGACATGTTCTCAGT  
GCTTCCAGAAGATCGCTCAAAGCACCTCGGAGAGGAGCTTCAACGGTACTGGGATAAAGAACTTCTGCGA  
GCCAAGAAGGACTCGAGGAAGCCCTCCTAACAAGGCAATCATAAAGTGTACTGGAAGCTTACCTGA  
TTTTGGGAATTTTACGTTAATTGAGGAGGGCACTCGAGTAGTTCAGCCCTTATTTTTAGGGAAAATTAT  
TGAATATTTTGAAGATGACCCCGACGACTCGGTGGCTTTCATACAGCTTATGGCTACGCAGCAGTG  
CTGTCCATGTGCACGCTCATCCTGGCCATACTACATCATTGTACTTCTACCACGTGCAGTGCGCCGGGA  
TGAGGCTGCGGGTTGCCATGTGCCACATGATTTACCGGAAGGCACTCCGGTTAAGTAACTCGGCCATGGG  
GAAGACAACCACAGGCCAGATAGTTAACCTGCTGTCCAACGACGTGAACAAATTCGACCAAGTGACAATC  
TTCTTGCACTTTCTGTGGGCAGGGCCGCTGCAGGCCATCGCGGTAACCGTCTCCTCTGGGTGGAGATAG  
GAATCTCCTGCCTGGCGGGCTTGCCGTTCTGGTTATTCTTCTGCCTCTGCAAAGCTGCATCGGGAAGCT  
GTTCTCGTCACTGCGGAGTAAACTGCGGCTTTCACGGATGCCAGGATCCGGACCATGAATGAAGTCATA  
ACAGGCATGAGGATAATAAAGATGTATGCGTGGGAGAAATCGTTTGTGACCTCATGGCAATCTGAGAA  
AGAAGGAGATTTCCAAGATTCTGGGCAGCTCCTACCTCAGAGGGATGAACATGGCGTCGTTTTTCATCGC  
AAACAAAGTCATCCTGTTCTGTGACCTTCACTAGCTACGTGCTGCTTGGCAATGAGATTACAGCTAGCCAC  
GTGTTTGTGGCCATGACTCTGTACGGTGGCGTTGCGTTGACAGTACCCTCTTCTCCCGTCAGCCATTG  
AGAGAGGGTCAGAGGCCATCGTCAGCATTTCGGAGGATCAAGAATTTCTGTTACTCGATGAACTACCACA  
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GCTGGTCAGCGTGACCGGAGGATCGCCTACGTTTCTCAGCAGCCCTGGGTGTTCTCGGGCACCGTGAGG



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AGCAATATTTTATTTGGGAAGAAATATGAGAAGGAGCGATATGAGAAAGTGATCAAGGCCTGTGCTCTGA  
AGAAGGACCTGCAGCTTCTGGAGGACGGGGATCTGACGGTTATAGGAGACCGGGGAGCCACGCTGAGTGG  
AGGCCAGAAAGCTCGGGTGAACCTGGCACGGGCGTCTACCAGGACGCCGACATCTACCTCCTTGATGAT  
CCGCTCAGCGCTGTCGATGCAGAAGTGGCAAGCACCTGTTCCAAGTGTGTATCTGTGAGGCGTTGCACG  
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CTGGACTTCATCCAGACGTTGCTCCTCGTCTGTAAGTGTGATCGCTGTGGCCGCGCGCTGATCCCTTGG  
TCCTCATACCATTGGTCCGCTCTCAGTCGTCTTCTGGTCTTTCGGAGATACTTCTTAGAGACGTCACG  
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CATCTTTGTAATCGTCTGCTTCCGTTCCGTTCTGTTCTGGCGAAGACTTTGAATGCTGGCAGGTTGGC  
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ATTCTAAAGAATAACCGAATACTGATCATTGATGAAGCAACTGCAAATGTGGACCAAGAACGGATGAGT  
TAATACAACAGAAGATCCGGGAGAAGTTTGCCAGTGCACAGTGTCTACCATTGCTCACAGACTGAACAC  
CATCATTGACAGTGACAAGATAATGGTTTTGGATTGAGGAAGACTGAAAGAATATGATGAGCCGATGTC  
TTGCTGCAGAATCCAGAGAGCCTCTTTACAAGATGGTTCAGCAACTGGGCAAGGGCGAAGCCGCTGCC  
TCACCGAAACAGCAAAACAGGTATACTTCAGACGGAAATACCCAGATATTACATTCACCAGCCCCGGT  
TATGAACACCTCCAATGGACAGCCCTCGGCCTTAAACAATTTGAAACAGCATTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215338 representing NM\_001033336  
 Red=Cloning site Green=Tags(s)

MLPVHTEVKPNPLQDANLCSRFFFWLNPLFKTGHKRRLLEEDDMFVLPEDRSKHLGEELQRYWDKELLR  
 AKKDSRKPSLTKAIIKCYWKSYLILGIFTLIEEGTRVVQPLFLGKIIIEYFEKYDPDSSVALHTAYGYAAV  
 LSMCTLILAHLHLYFYHVQCAGMRLRVAMCHMIYRKALRLSNSAMGKTTTGQIVNLLSNDVKNFDQVTI  
 FLHFLWAGPLQAI AVTVLLWVEIGISCLAGLAVLVILLPLQSCIGKLFSSLRSKTAAFTDARIRTMNEVI  
 TGMRIIKMYAWEKSFADLIANLRKKEISKILGSSYL RGMNMAFFIANKVILFVTFTSYVLLGNEITASH  
 VVAVMTLYGAVRLTVTLFFPSAIERGSEAIVSIRRIKNFLLLDLDEL PQRKAHVPSDGKAI VHVQDFTAFWD  
 KALDSPTLQGLSFIARPGELLAVVGPV GAGKSSLLSAVLGELPPASGLVSVHGRIAYVSQQPWVFSGTVR  
 SNILFGKYEKERYEKVIKACALKKDLQLLEDGDLTVIGDRGATLSGGQKARVNLARAVYQDADIYLLDD  
 PLSAVDAEVGKHLFQLCICQALHEKITILVTHQLQYLKAASHILILKDGEMVQKGTYTEFLKSGVDFGSL  
 LKKENEEAEPSTAPGTPLRKRTFSEASIWSQQSSRPSLKDGAPEGQDAENTQAVQPEESRSEGRIGFKA  
 YKNYFSAGASWFFIIFLVLLNMVGQVFVYLQDWLWLSHWANKQ GALNNTRNANGNITETLDLSWYLG IYAG  
 LTAVTVLFGIARSLLVFYILVNASQTLHNRMFESILKAPVLFDRNP IGRILNRF SKDIGHMDDLPLTF  
 LDFIQTL LLLVSVIAVA AAVIPWIL IPLVPLSVVFLVLRRYFLET SRDVKRLESTRSPVFSHLSSSLQG  
 LWTIRAYKAEERCQELFDAHQDLHSEAWFLFTTSRWF AVRLDAICAFIVVAFGSLVLA KTLNAGQVG  
 LALSYAL TLMGMFQWSVRQSAEVENMMISVERVIEYTDLEKEAPWECKRPPPGWPHEGVI VFDNVFTY  
 SLDGPLVLKHLTALIKSREKVGIVGRTGAGKSSLSALFRLSEPEGKIWIDKILTTEIGLHDLRKKMSII  
 PQEPVLF TGTMRKNLDPFNEHTDEELWRAL EEVQLKEAIEDLPGKMDTELAESGSNF SVGQRQLVCLARA  
 ILKNNRILIIIDEATANVDPRTDEL IQQKIREKFAQCTVLTIAHRLNTIIDSDKIMVLDSGRLKEYDEPYV  
 LLQNPESLFYKMQQLGKGEEAAL TETAKQVYFRNYPDITFTSPAVMNTSNGQPSALTIFETAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9011\\_e05.zip](https://cdn.origene.com/chromatograms/mm9011_e05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001033336

ORF Size: 3975 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](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\\_001033336.3](#), [NP\\_001028508.2](#)

**RefSeq Size:** 5729 bp

**RefSeq ORF:** 3978 bp

**Locus ID:** 239273

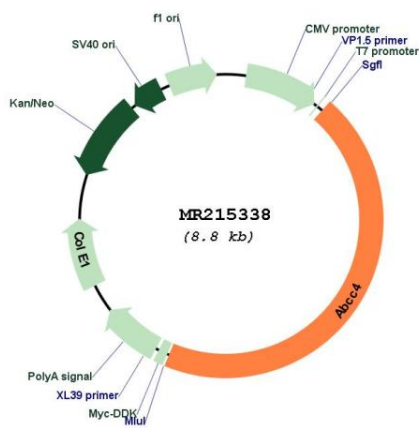
**UniProt ID:** [Q3TZN9](#)

**Cytogenetics:** 14 E4

**MW:** 149.3 kDa

**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]

**Product images:**

Circular map for MR215338