

Product datasheet for **MG215338**

Abcc4 (NM_001033336) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc4 (NM_001033336) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Abcc4
Synonyms: ABCC4-N1; D630049P08Rik; MOATB; MRP4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215338 representing NM_001033336
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCTGCCGGTGACACCCGAGGTGAAACCAACCCGCTGCAGGACGCCAACCTCTGCTCGCGGTGTTCT
 TCTGGTGGCTCAACCCGCTGTTTAAACTGGTCATAAGCGGAGACTGGAAGAAGATGACATGTTCTCAGT
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 GCCAAGAAGGACTCGAGGAAGCCCTCCTAACAAGGCAATCATAAAGTGTACTGGAAGTCTTACCTGA
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AGCAATATTTTATTTGGGAAGAAATATGAGAAGGAGCGATATGAGAAAGTGATCAAGGCCTGTGCTCTGA
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 TATGAACACCTCCAATGGACAGCCCTCGGCCTTAAACAATTTGAAACAGCATTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215338 representing NM_001033336
 Red=Cloning site Green=Tags(s)

MLPVHTEVKPNPLQDANLCSRFFFWLNPLFKTGHKRRLEEDDMF SVLPEDRSKHLGEELQRYWDEKELLR
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 FLHFLWAGPLQAI AVTVLLWVEIGISCLAGLAVLVILLPLQSCIGKLFSSLRSKTAAFTDARITMNEVI
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 V FVAMTLYGAVRLTVTLFFPSAIERGSEAIVSIRRIKNFLLLDELQPQKAHVPSDGKAIHVHQDFTAFWD
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 LTAVTVLFGIARSLLVFYILVNASQTLHNRMFESILKAPVLFDRNP IGRILNRF SKDIGHMDDLPLTF
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 LALSYAL TLMGMFQWSVRQSAEVENMMISVERVIEYTDLEKEAPWECKRPPPGWPHEGVI VFDNVFTY
 SLDGPLVLKHLTALIKSREKVGIVGRTGAGKSSLSALFRLSEPEGKIWIDKILTTEIGLHDLRKKMSII
 PQEPVLF TGTMRKNLDPFNEHTDEELWRAL EEVQLKEAIEDLPGKMDTELAESGSNF SVGQRQLVCLARA
 ILKNNRILIIIDEATANVDPRTDEL IQQKIREKFAQCTVLTIAHRLNTIIDSDKIMVLDSGRLKEYDEPYV
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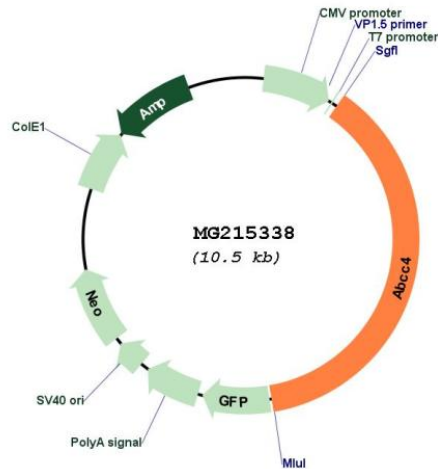
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


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 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

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]