

Product datasheet for MR215261

Abcc4 (NM_001163676) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc4 (NM_001163676) 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: >MR215261 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCTGCCGGTGACACCCGAGGTGAAACCAACCCGCTGCAGGACGCCAACCTCTGCTCGCGGTGTTCT
 TCTGGTGGCTCAACCCGCTGTTTAAACTGGTCATAAGCGGAGACTGGAAGAAGATGACATGTTCTCAGT
 GCTTCCAGAAGATCGCTCAAAGCACCTCGGAGAGGAGCTTCAACGGTACTGGGATAAAGAAGTCTGCGA
 GCCAAGAAGGACTCGAGGAAGCCCTCCTAACAAGGCAATCATAAAGTGTACTGGAAGTCTTACCTGA
 TTTTGGGAATTTTACGTTAATTGAGGCACTCCGGTTAAGTAACTCGGCCATGGGAAGACAACCCACAGG
 CCAGATAGTTAACTGCTGTCCAACGACGTGAACAAATTCGACCAAGTGACAATCTTCTTGCACTTCTG
 TGGGCAGGGCCGCTGCAGGCCATCGCGTAACCGTCTCTCTGCGGTGGAGATAGGAATCTCCTGCCTGG
 CGGGCTTGGCCGTTCTGTTTATTCTTCTGCCTCTGCAAAGCTGCATCGGGAAGCTGTTCTCGTCACTGCG
 GAGTAAACTGCGGCTTTCACGGATGCCAGGATCCGGACCATGAATGAAGTCATAACAGGCATGAGGATA
 ATAAAGATGTATGCGTGGGAGAAATCGTTTGTGACCTCATTGCCAATCTGAGAAAGAAGGAGATTTCCA
 AGATTCTGGGCAGCTCCTACCTCAGAGGGATGAACATGGCGTCGTTTTTCATCGCAAACAAAGTCATCCT
 GTTCGTGACCTTCACTAGCTACGTGCTGCTTGGCAATGAGATTACAGCTAGCCACGTGTTTGTGGCCATG
 ACTCTGTACGGTGCCGTTGCGTTGACAGTCACCCTCTTCTCCGTCAGCCATTGAGAGAGGGTCAGAGG
 CCATCGTCAGCATTCCGAGGATCAAGAATTTCTGTTACTGATGAACTACCACAGCGCAAAGCCCATGT
 ACCATCTGATGGCAAAGCCATTGTCCACGTGCAAGATTTACCGCTTTCTGGGACAAAGGCACTAGACAGT
 CCAACCTGCAAGGTCTTCTCTTATTGCCAGGCTGGTGGAGTTGTTAGCCGTGGTTGGCCAGTTGGAG
 CAGGCAAGTCGTCGCTGTTGAGCGCAGTGTGGTGAGCTGCCTCCTGCCAGCGGGCTGGTCAGCGTGCA
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 TTCTGGAGGACGGGATCTGACGGTTATAGGAGACCGGGAGCCACGCTGAGTGGAGGCCAGAAAGCTCG
 GGTGAACCTGGCACGGGCGTCTACCAGGACGCCGACATCTACCTCCTTGATGATCCGCTCAGCGTGTCT



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GATGCAGAAGTGGGCAAGCACCTGTTCCAACGTGTATCTGTCAGGCGTTGCACGAGAAGATCACCATTT
TAGTGACTCACCAGTTACAGTACCTCAAAGCTGCAAGCCACATCCTCATACTCAAAGATGGTGAGATGGT
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CAAGATAATGGTTTTGGATTAGGAAGACTGAAAGAATATGATGAGCCGTATGTCTTGTGCAGAATCCA
GAGAGCCTCTTTTACAAGATGGTTCAGCAACTGGGCAAGGGCGAAGCCGCTGCCCTCACCGAAACAGCAA
AACAGGTATACTTACAGACGGAATTACCCAGATATTACATTCACCAGCCCCGCGGTTATGAACACCTCCAA
TGGACAGCCCTCGGCCTTACAATATTTGAAACAGCATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215261 protein sequence
 Red=Cloning site Green=Tags(s)

MLPVHTEVKPNPLQDANLCSRFFFWLNPLFKTGHKRRLEEDDMF SVLPEDRSKHLGEELQRYWDKELLR
 AKKDSRKPSTLTKAIKCYWKSYLILGIFTLIEALRLSNSAMGKTTTGQIVNLLSNDVNKFDQVTIFLHFL
 WAGPLQAI AVTVLLWVEIGISCLAGLAVLVILLPLQSCIGKLFSSLRSKTA AFTDARITMNEVITGMRI
 IKMYAWEKSFADLIANLRKKEISKILGSSYL RGMNMAFFIANKVILFVTFTSYVLLGNEITASHVFVAM
 TLYGAVRLTVTLFFPSAIERGSEAI VSIRRIKNFLLDEL PQRKAHVPSDGKAI VHVQDFTAFWDKALDS
 PTLQGLSFIARPGELLAVVGPV GAGKSSLLSAVLGELPPASGLVSVHGRIAYVSQQPWVFSGTVRSNILF
 GKYEKERYEKVIKACALKKDLQLLEDGDLTVIGDRGATL SGGQKARVNLARAVYQDADIYLLDDPLSAV
 DAEVGHKHLFQLCICQALHEKITILVTHQLQYLKAASHIL ILKDGEMVQKGTYTEFLKSGVDFGSLKKEN
 EEAEPSTAPGTPTLRKRTFSEASIWSQQSSRPSLKDGAPEGQDAENTQAVQPEESRSEGRIGFKAYKNYF
 SAGASWFFIIFLVLLNMVGQV FVYLQDWWL SHWANKQGALNNTRNANGNITETLDL SWYLG IYAGLTAVT
 VLFGIARSLLVFYL VNASQTLHNRMFESILKAPVLFDRNP IGRILNRF SKDIGHMDLLPLTF LDFIQ
 TLLL VVS VIAVA AVIPWIL IPLVPLSVVFLVLRRYFLETSRDVKRLESTTRSPVFSHLSSSLQGLWTIR
 AYKAEERCQELFAHQDLHSEAWFLFLTTSRWFVRLDAICAI FVIVVAFGSLVLA KTLNAGQVGLALS Y
 AL TLMGMFQWSVRQSAEVENMMISVERVIEYTDLEKEAPWECKRPPPGWPH EGVI VFDNVNFTYSLDGP
 LVLKHLTALIKSREKVGIVGRTGAGKSSLSALFRLSEPEGKIWIDKIL TTEIGLHDLRKKMSIIPQEPV
 LFTGTRMKNLDPFNEHTDEELWRAL EEVQLKEAIEDLPGKMDTELAESGSNF SVGQRQLVCLARA I LKNN
 RIL IIDEATANVDPRTDEL IQQKIREKFAQCTVLTIAHRLNTIIDSDKIMVLD SGRLKEYDEPYVLLQNP
 ESLFYKMQVQLGKGEEAAL TETAKQVYFRNYPDITFTSPAVMNTSNGQPSALTIFETAL

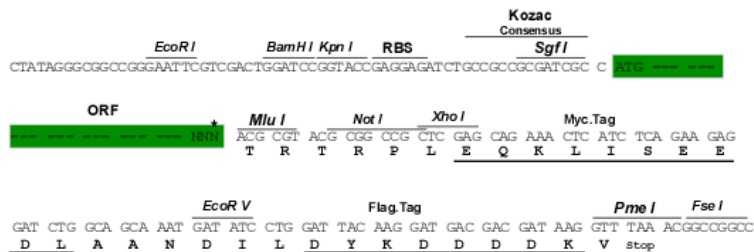
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



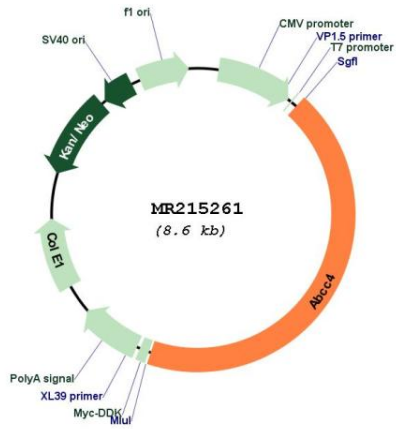
* The last codon before the Stop codon of the ORF

ACCN: NM_001163676

ORF Size: 3750 bp

OTI Disclaimer:	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:	<ol style="list-style-type: none">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
MW:	140.2 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 MR215261