

Product datasheet for MC225246

Abca1 (NM_013454) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abca1 (NM_013454) Mouse Untagged Clone
Tag: Tag Free
Symbol: Abca1
Synonyms: ABC-1; Abc1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC225246 representing NM_013454
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCTTGTGGCCTCAGTTAAGGCTGCTGCTGTGGAAGAATCTGACATTCGAAGGAGACAAACATGTC
 AGCTGTTACTGGAAGTGGCCTGGCCTCTTTATCTTCTGATCCTGATCTGTACGCCTGAGCTACCC
 ACCCTACGAACAACATGAGTGCCACTTTCCGAATAAGCCATGCCGTCTGCAGGAACCTCCCCTGGGTA
 CAGGGGATTATCTGTAATGCCAACAAACCCCTGCTCCGTTATCCAACCCCGCGAGGCTCCCGGTGTTG
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 AAGAGATACCAGCATTAAAGGACATGCACAAGGTCCTGAGAATGTTACGGCAGATCAAGCATCCCAACTCA
 AATTTGAAGCTCCAGGATTTTCTGGTGGACAATGAAACATTCTCTGGATTCTGCAGCACAAATTTGTCCC
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 TAAAGCCCGGAGATTCTGTGGAATTGTGCCCTAAGCATTGTCAAGGAGGGGAGATCTGTAGTCCTTACA
 TCTCATAGTATGGAAGAATGTGAAGCTCTTTGTACAAGGATGGCCATAATGGTCAATGGAAGGTTCAAGT
 GCCTTGGCAGTGTCCAACATCTGAAAAACAGGTTTGGAGATGGTTATAACAATAGTTGTACGAATAGCAGG
 CTCCAACCCTGACCTGAAGCCTGTCCAGGAGTTCTTTGGACTTGGCTTCCGGGAAGTGTCTAAAAAGAG
 AAACATCGAAACATGCTTCAGTACCAGCTTCCATCCTCCTGTCTCTAGCCAGGATATTCAGCATCC
 TCTCCCAGAGCAAAAAGCGACTCCACATAGAAGACTACTCTGTCTCTCAGACAACACTTGACCAAGTATT
 TGTGAACCTTTGCCAAGGACCAAAAGTGATGATGACCACTTAAAGGACCTGCACTGCACAAAAACCAGACA
 GTTGTGGATGTGGCCGTCTCACATCCTTTTTGCAGGATGAGAAAAGTAAAGAAAAGTTATGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_013454

Insert Size:

6786 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](#)

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_013454.3](#), [NP_038482.3](#)

RefSeq Size: 10260 bp

RefSeq ORF: 6786 bp

Locus ID: 11303

UniProt ID: [P41233](#)

Cytogenetics: 4 28.57 cM

Gene Summary: The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. In humans, this protein functions as a cholesterol efflux pump in the cellular lipid removal pathway. Mutations in the human gene have been associated with Tangier's disease and familial high-density lipoprotein deficiency. [provided by RefSeq, Jul 2008]