

Product datasheet for MC203155

Acaa2 (NM_177470) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Acaa2 (NM_177470) Mouse Untagged Clone
Tag: Tag Free
Symbol: Acaa2
Synonyms: 0610011L04Rik; AI255831; AI265397; D18Erttd240e
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC028901
 GACGCGTGGGCCGCGGAATAGCTGAGCTTCGCCATGGCCCTGCTACGAGGTGTGTTTCATCGTCGCTGCGA
 AGCGAACACCCCTTTGGAGCTTACGGGGCCTTCTCAAGGACTTCTGCCACCGATTTAACTGAATTTGC
 TGCCAGGGCTGCTCTGTCTGCTGGCAAAGTTCCACCTGAAACCATCGATAGTGTCATCGTGGGCAATGTC
 ATGCAGAGCTCTTCAGATGCGGCATACCTGGCGAGGCATGTGGGTTTGGAGTGGGAGTCCCAACAGAGA
 CTGGGGCACTTACCCTCAACAGGCTCTGTGGCTCTGGTTTCCAGTCCATCGTGAGCGGATGTCAGGAAAT
 CTGTTCTAAAGATGCTGAGGTCTGTTGTGGAGGAACAGAGAGCATGAGCCAGTCCCCCTACTGTGTC
 AGAAATGTGCGCTTCGGAACCAATTTGGATTAGATCTCAAGCTGGAAGATACTTTGTGGGCAGGATTA
 CGGATCAACATGTTAAGCTGCCCATGGGAATGACTGCAGAGAACCTTGTGCAAAATAACAATAAGCAG
 AGAAGACTGTGACAGATACGCCTTGCAGTCTCAGCAGAGGTGGAAGCTGCTAACGAGGCTGGCTACTTC
 AATGAGGAGATGGCACCCATTGAGGTGAAGACGAAGAAAGCAAACAGACCATGCAAGTGGACGAGCAGC
 CTCGACCCCAAACCACCTGGAGCAACTGCAGAAGCTCCCGTCCGTGTTCAAGAAAGACGGGACAGTCAC
 AGCAGGGAACGCCTCGGGGGTGTCTGACGGTGTGGGGCCGTCATCATAGCCAGCGAAGATGCTGTCAAA
 AAACATAACTTACGCCCCTGGCCAGAGTCGTGGGCTACTTTCGTGTCCGGATGCGATCCTACTATCATGG
 GTATTGGTCCAGTCCCTGCTATCAATGGAGCATTGAAGAAAGCTGGGCTGAGTCTTAAGGACATGGATTT
 GATAGACGTGAACGAAGCTTTTGGCCCTCAGTCTTGTCTGTTTCAAGAGCCCTGGATCTTGACCCACGC
 AAAACCAATGTGAGTGGAGGCGCCATTGCCCTGGGTACCCCGTGGGAGGATCTGGCTCCAGAATCACCC
 CACACCTGGTTTCATGAGTTAAGGCGTCGAGGTGGAAGTACGCAGTGGGATCGGCTTGCATTGGAGGTGG
 CCAAGGCATCGCCCTGATCATCCAGAACACAGTCTGAAGGCATCACAAGCACACTGCCACACTTACTGG
 GCCAGGCCACGGAACACAGGAGACCTTCAAGTCAGCCCTGCTGAGACAGTGATTATATGTGACCAAGCCT
 TGATGAGGCAAGATGCATTGGGTTCTGTCTACTTTATACCTGCCTGACGTGTTAGAAATAAAACACCAAC
 CATCGGAGGCCTTAAGAGAAATGGTATCTGTCAGTAGTACCCTGTATGCCTTCCATGGAGTAATACAA
 ACTGAATAAATGTTGCCTTAACTCCAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_177470



[View online >](#)

Insert Size:	1194 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:	<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:	BC028901 , AAH28901
RefSeq Size:	1510 bp
RefSeq ORF:	1194 bp
Locus ID:	52538
UniProt ID:	Q8BWT1
Cytogenetics:	18 50.76 cM
Gene Summary:	In the production of energy from fats, this is one of the enzymes that catalyzes the last step of the mitochondrial beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA. Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain unbranched 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms. Also catalyzes the condensation of two acetyl-CoA molecules into acetoacetyl-CoA and could be involved in the production of ketone bodies. Also displays hydrolase activity on various fatty acyl-CoAs (By similarity). Thereby, could be responsible for the production of acetate in a side reaction to beta-oxidation (By similarity). Abolishes BNIP3-mediated apoptosis and mitochondrial damage (By similarity).[UniProtKB/Swiss-Prot Function]