

Product datasheet for SC111152

ACAA2 (NM_006111) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAA2 (NM_006111) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAA2
Synonyms:	DSAEC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111152 sequence for NM_006111 edited (data generated by NextGen Sequencing)

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ATGGCTCTGCTCCGAGGTGTGTTTGTAGTTGCTGCTAAGCGAACGCCCTTTGGAGCTTAC
GGAGGCCCTTCTGAAAGACTTCACTGCTACTGACTTGTCTGAATTTGCTGCCAAGGCTGCC
TTGTCTGCTGGCAAAGTCTCACCTGAAACAGTTGACAGTGTGATTATGGGCAATGCCTG
CAGAGTTCTTTCAGATGCTATATATTTGGCAAGGCATGTTGGTTTTCAGTCCATTGTG
AAGGAGACCCAGCTCTCACGATTAATAGGCTCTGTGGTTCTGGTTTTTCAGTCCATTGTG
AATGGAYGTCAGGAAATTTGTGTTAAAGAAGCTGAAGTTGTTTTATGTGGAGGAACCGAA
AGCATGAGCCAAGCTCCCTACTGTGTCAGAAATGTGCGTTTTGGAACCAAGCTTGGATCA
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ATGGCAATGACTGCAGAGAATCTTGTGTAACACAAAATAAGCAGAGAAGAATGTGAC
AAATATGCCCTGCAGTCACAGCAGAGATGGAAAGCTGCTAATGATGCTGGCTACTTTAAT
GATGAAATGGCACCAATTGAAGTGAAGCAAAAGAAAGAAAACAGACAATGCAGGTAGAC
GAGCATGCTCGGCCCAAACCACCTGGAACAGTTACAGAAAATTCTCCAGTATTCAAG
AAAGATGGAAGTGTACTGCAGGGAATGCATCGGGTGTAGCTGATGGTGTGGAGCTGTT
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GGCTACTTTGTATCTGGATGTGATCCCTCTATCATGGGTATTGGTCTGTCCCTGCTATC
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GAAGCTTTTGTCTCCCACTGTTGGCTGTTGAGAGGAGTTGGATCTTGACATAAGTAAA
ACCAATGTGAATGGAGGAGCCATTGCTTTGGGTCACTGGGAGGATCTGGATCAAGA
ATTACTGCACACCTGGTTACGAATTAAGGCGTCGAGGTGAAAAATATGCCGTTGGATCA
GCTTGCATTGGAGGTGGCCAAGGTATTGCTGTCATCATTACAGAGCACAGCCTGA

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Clone variation with respect to NM_006111.2
307 t=>y



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006111 unedited AATACGTCTTACTATAGGGCGGCCGCAATTCGGCACGAGGAGAGGTGTCAAACCAAAATT CTCTCGGTTTTGAAACGGAGAAAATCTAAAAATGAGGATGTGAGGAAAGAGTCCGCTCTC AAGGCGCGTTGTGGTCTATCCGAGCCCCGTCCCCTGGGCTCCCTCGGGCTGGGGTGAGGC GGGCAGCGCTACGCGTGGGTAGGACCATCTTACGCTGGGACCCCGCAAGGAGCCCCAG GAAGTAGTGAAAGGGCAGGGGGCGTGGCTCTCGGGGCGCCACCCACGCTCTTGAATCTG GGTGATTGCGAGCGGCCGCTCAGCGTCCCCACACCACAGACCCGCGCCGCGACGACCC AGCAGCCGCATGGCTCTGCTCCGAGGTGTGTTGTAGTTGCTGCTAAGCGAACGCCCTT TGGAGCTTACGGAGCCCTCTGAAAGACTTCACTGCTACTGACTTGTCTGAATTTGCTGC CAAGGCTGCCTTGTCTGCTGGCAAAGTCTCACCTGAAACAGTTGACAGTGTGATTATGGG CAATGCTCTGCAGAGTTCTTACAGATGCTATATATTTGGCAAGGCATGTTGGTTTGCCTGT GGGAATCCCAAGGAGACCCAGCTCTCACGATTAATAGGCTCTGTGGTTCTGGTTCTCAG TCCATTGTGAATGGATGCCAAGAAAATTTGTGTTAAGAAGCTGACATCCATTACATGG ACGACCCGAAACTTGTGCCAAGCAGCTGAAGTGGTTTATGGGGCGGACCCGAAGCATGTC CCATCTCCCTTCTGTGAAAAATGTTTCGTGTGGGACCAACCTTGGATCGATTACGCTGG AGAGTCTTATGGGTAATTACGCTCACATGCCAGCTCCCCGAAATGTCGCAAAATTCCT CGGTTAAACAAATTAGCGGTGTATGTCCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006111 unedited CCGCGGCCCAATCTATNATCGAGTTTTTTTTTTTTTTTTTTTTTTGAAGTTAAGGCAACATTT ATTTGATTTCTTATAATCATATTATCTAAGGCAGAAGTGGTGGTACTTGGCAAGAATA CGATTTCTTTAATGTCTTCTATAGTTGAGTTTTAGCTCAGAAAATACATCATATTTCACT GGTTCAAATCTGAGAGAATGTACTTCTAGCATGGGCTCCTATTTCATGATCAATGCATTTT TGTGTCACCATGGCTTGATCAAACCTTAATCACTGTTTCAATGGCAGGGCATGGCCAGTTG TGGCAGCTGCTCTGAAGTCACTTGTGTTTACTGTGGCCTGGCCAAGTAGAGTAAGGATGG GTCACAGTGAGCTCACTGGTCTCTTACAGGCTGTGCTCTGAATGATGACAGCAATACCTTG GCCACCTCCAATGCAAGCTGATCCAACGGCATATTTCCACCTCGACGCCTTAATTCGTG AACCAGGTGTGCAGTAATTTGATCCAGATCCTCCAGTGGGTGACCCAAAGCAATGGC TCCTCCATTACATTTGGTTTTACTTATGTCAAGATCCAACTCCTCTCAACAGCCAAGTA CTGGGGAGCAAAAAGCTTCATTCACCTCTACCAAATCCATGTCCTTAAGACTCAGTCTGCT TTTCTTTCAGTGCCCACTGATAGCAGGGACAGGACCAATACCCATGATAGAGGGATCACA TCCAGATACAAAAGTAGCCACAATTCTTGCCAGTGGTGTGAAGTTATGTTTCTTTACAGC ATCTTCACTAGCTATTGATACAGCTCCAGCACCATTAGCTACACCCGATGCATTCCTGCT AGTAACAGTTCCATCCTTCTTGATACTGTAGGAAGTTTCTTGTACTTGTTCAGGNTGGGT TTGGGGCCAGCATGCTCGNCTACCTGCATTGNCCGGTTTTCCCTCTTGGCTCACTTNCN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006111
Insert Size:	2080 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:	<u>NM_006111.1, NP_006102.1</u>
RefSeq Size:	1584 bp
RefSeq ORF:	1194 bp
Locus ID:	10449
UniProt ID:	<u>P42765</u>
Cytogenetics:	18q21.1
Domains:	thiolase
Protein Pathways:	Fatty acid elongation in mitochondria, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation
Gene Summary:	The encoded protein catalyzes the last step of the mitochondrial fatty acid beta-oxidation spiral. Unlike most mitochondrial matrix proteins, it contains a non-cleavable amino-terminal targeting signal. [provided by RefSeq, Jul 2008]