

Product datasheet for **SC320701**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006111.1
 CGACGACCCAGCAGCCGCCATGGCTCTGCTCCGAGGTGTGTTTGTAGTTGCTGCTAAGCG
 AACGCCCTTTGGAGCTTACGGAGGCCTTCTGAAAGACTTCACTGCTACTGACTTGTCTGA
 ATTTGCTGCCAAGGCTGCCTTGTCTGCTGGCAAAGTCTCACCTGAAACAGTTGACAGTGT
 GATTATGGGCAATGTCTGCAGAGTTCTTCAGATGCTATATATTTGGCAAGGCATGTTGG
 TTTGCGTGTGGGAATCCCAAAGGAGACCCAGCTCTCACGATTAATAGGCTCTGTGGTTC
 TGGTTTTTCAGTCCATTGTGAATGGATGTCAGGAAATTTGTGTTAAAGAAGCTGAAGTTGT
 TTTATGTGGAGGAACCGAAAGCATGAGCCAAGCTCCCTACTGTGTCAGAAATGTGCGTTT
 TGGAAACCAAGCTTGGATCAGATATCAAGCTGGAAGATTCTTTATGGGTATCATTAAACAGA
 TCAGCATGTCCAGCTCCCATGGCAATGACTGCAGAGAATCTTGCTGTAAAAACAAAAAT
 AAGCAGAGAAGAATGTGACAAATATGCCCTGCAGTCACAGCAGAGATGGAAAGCTGCTAA
 TGATGCTGGCTACTTTAATGATGAAATGGCACCAATTGAAGTGAAGACAAAGAAAGGAAA
 ACAGACAAATGCAGGTAGACGAGCATGCTCGGCCCAAACCACCCTGGAACAGTTACAGAA
 ACTTCCTCCAGTATTCAAGAAAGATGGAAGTGTACTGCAGGGAATGCATCGGGTGTAGC
 TGATGGTGTGGAGCTGTTATCATAGCTAGTGAAGATGCTGTTAAGAAACATAACTTCAC
 ACCACTGGCAAGAATTGTGGGCTACTTTGTATCTGGATGTGATCCCTCTATCATGGGTAT
 TGGTCCTGTCCCTGCTATCAGTGGGGCACTGAAGAAAGCAGGACTGAGTCTTAAGGACAT
 GGATTTGGTAGAGGTGAATGAAGCTTTTGTCCCCAGTACTTGGCTGTTGAGAGGAGTTT
 GGATCTTGACATAAGTAAAACCAATGTGAATGGAGGAGCCATTGCTTTGGGTCACCCACT
 GGGAGGATCTGGATCAAGAATTACTGCACACCTGGTTCACGAATTAAGGCGTCGAGGTGG
 AAAATATGCCGTTGGATCAGCTTGCATTGGAGGTGGCCAAGGATTGCTGTCATCATTCA
 GAGCACAGCCTGAAGAGACCAGTGAAGCTCACTGTGACCCATCCTTACTCTACTTGGCCAG
 GCCACAGTAAAAACAAGTGACCTTCAGAGCAGCTGCCACAAGTGGCCATGCCCTGCCATTG
 AAACAGTGATTAAGTTTATCAAGCCATGGTGACACAAAAATGCATTGATCATGAATAGG
 AGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCAGTGAATATGATGATTTTCTGA
 GCTAAAACTCAACTATAGAAGACATTAAGAAATCGTATTCTTGCCAAGTAACCACCAC
 TTCTGCCTTAGATAATATGATTATAAGGAAATCAATAAATGTTGCCTTAACTTCAAAAA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006111

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_006111.1 , NP_006102.1
RefSeq Size:	1584 bp
RefSeq ORF:	1194 bp
Locus ID:	10449
UniProt ID:	P42765
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]