

## Product datasheet for **SC336048**

### ACAT2 (NM\_001303253) Human Untagged Clone

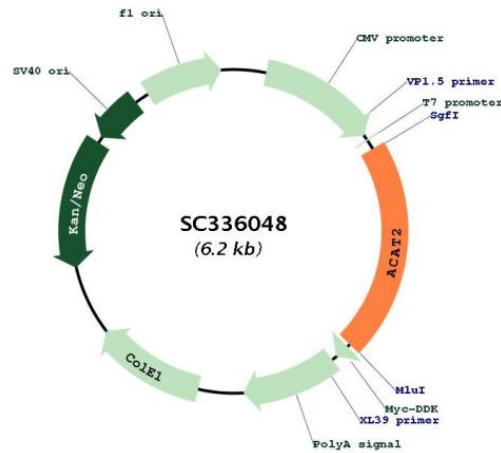
#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACAT2 (NM_001303253) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC336048 representing NM_001303253. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGTCGCATCCAGTCCCTTCGGATTTGGGAAATAGAAGGGCTACAGCGGCGTCCCTAGGCCGTTCT
GGAGGTCGCCTGTCCAGCCCTCGGCTGCTGCGAGTTGTGGCACCCACCTTGACCTTTGCTCAGACCAGC
AGGTGTTCCCTCAATGGTGCCTTAGCTGCTGTTCTGTCCAGGACCTGGGCTCCACTGTCATCAAAGAA
GTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTCATCTTTGGACATGTCTTGGCAGCA
GGCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTGCAGGAATCCCTACTCTGTTCCAGCATGG
AGCTGCCAGATGATCTGTGGGTCAGGCCATAAAGCTGTGTGCCTTGACAGTCCAGTCAATAGGGATAGGA
GACTCCAGCATTGTGGTTGCAGGAGGCATGGAAAATATGAGCAAGGCTCCCTCACTTGGCTTACTTGAGA
ACAGGAGTAAAGATAGGTGAGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTT
CACAACTGCATATGGGTATTACAGCTGAAAATGTAGCCAAAAATGGCAAGTGAGTAGAGAAGATCAG
GACAAGGTTGCAGTTCTGTCCCAGAACAGGACAGAGAATGCACAGAAAGCTGGCCATTTTGACAAAGAG
ATTGTACCAGTTTGGTGTCAACTAGAAAAGGTCTTATTGAAGTTAAAACAGATGAGTTTCTCGCCAT
GGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTTACTTTCTTACTGATGGAACGGGAACAGTCACC
CCAGCCAATGCTTCAGGAATAAATGATGGTGTGCAGCTGTCGTTCTTATGAAGAAGTCAGAAGCTGAT
AAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGGAGCCTCCATTATG
GGAATAGGACCAATCCAGCCATAAAGCAAGCTGTACAAAAGCAGGTTGGTCACTGGAAGATGTTGAC
ATATTTGAAATCAATGAAGCCTTTGACGCTGTCTGTGCAATAGTTAAAGAAGTGGATTAACCCA
GAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCCTCTGGAGCATCTGGCTGTGCAATT
CTTGTGACCCTGTTACACACACTGGAGAGAATGGGCAGAAAGTCGTGGTGTGCAGCCCTGTGCATTGGG
GGTGGGATGGGAATAGCAATGTGTGTTCCAGAGAGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



**Plasmid Map:**


**ACCN:** NM\_001303253

**Insert Size:** 1281 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:**

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\\_001303253.1](#)

**RefSeq Size:** 1723 bp

**RefSeq ORF:** 1281 bp

**Locus ID:** 39

**UniProt ID:** [Q9BWD1](#)

**Cytogenetics:** 6q25.3

**Protein Families:** Druggable Genome

<b>Protein Pathways:</b>	Butanoate metabolism, Fatty acid metabolism, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Terpenoid backbone biosynthesis, Tryptophan metabolism, Valine, leucine and isoleucine degradation
<b>MW:</b>	44.6 kDa
<b>Gene Summary:</b>	<p>The product of this gene is an enzyme involved in lipid metabolism, and it encodes cytosolic acetoacetyl-CoA thiolase. This gene shows complementary overlapping with the 3-prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and has an alternate 5' coding region, compared to variant 1. The resulting isoform (2) is longer and has a distinct N-terminus, compared to isoform 1.</p>