

Product datasheet for **SC320257**

ACAT2 (NM_005891) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACAT2 (NM_005891) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACAT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_005891.1 GGAGAAGCAAGATGAATGCAGGCTCAGATCCTGTGGTCATCGTCTCGGCGCGCGGACCA TCATAGGTTCCCTCAATGGTGCCTTAGCTGCTGTTCTGTCCAGGACCTGGGCTCCACTG TCATCAAAGAAGTCTTGAAGAGGGCCACTGTGGCTCCGGAAGATGTGTCTGAGGTCATCT TTGGACATGTCTTGGCAGCAGGCTGTGGGCAGAATCCTGTTAGACAAGCCAGTGTGGGTG CAGGAATTCCTACTCTGTTCCAGCATGGAGCTGCCAGATGATCTGTGGGTGAGGCCTAA AAGCTGTGTGCCTTGCAGTCCAGTCAATAGGGATAGGAGACTCCAGCATTGTGGTTGCAG GAGGCATGGAAAATATGAGCAAGGCTCCTCACTTGGCTTACTTGAGAACAGGAGTAAAGA TAGGTGAGATGCCACTGACTGACAGTATACTCTGTGATGGTCTTACAGATGCATTTACACA ACTGTCATATGGGTATTACAGCTGAAAAATGTAGCCAAAAAATGGCAAGTGAAGTAGAGAAG ATCAGGACAAGGTTGCAGTCTGTCCAGAACAGGACAGAGAATGCACAGAAAAGCTGGCC ATTTTGACAAAGAGATTGTACCAGTTTTGGTGTCAACTAGAAGAGGTCTTATTGAAGTTA AAACAGATGAGTTTCTCGCCATGGGAGCAACATAGAAGCCATGTCCAAGCTAAAGCCTT ACTTTCTACTGATGGAACGGGAACAGTCACCCAGCCAATGCTTCAAGGAATAAATGATG GTGCTGCAGCTGTCGTTCTTATGAAGAAGTCAGAAGCTGATAAACGTGGACTTACACCTT TAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGGAGCCTTCCATTATGGGAATAGGAC CAATCCAGCCATAAAGCAAGCTGTTACAAAAGCAGGTTGGTCACTGGAAGATGTTGACA TATTTGAAATCAATGAAGCCTTTCAGCTGTCTCTGCTGCAATAGTTAAAGAAGTGGAT TAAACCCAGAGAAGGTCAATATTGAAGGAGGGGCTATAGCCTTGGGCCACCTCTTGGAG CATCTGGCTGTCGAATCTTGTGACCCTGTTACACACACTGGAGAGAATGGGCAGAAGTC GTGGTGTGACGCCCTGTGCATTGGGGTGGGATGGGAATAGCAATGTGTGTTACAGAGAG AATGAATTGCTTAACTTTGAACAACCTCAATTTCTTTTAACTAATAAAGTACTAGGT TGCAATATGTGAAATCAGAGGACCAAAGTACAGATGGAAACCATTTTCTACATCACAAAA ACCCAAGTTTACAGCTTGTACTTTAATGTGTAATACTCAACTCAAGGTACAAGAC AATTGCATTTAACATTGTTATAAATAAAAAGGAACATCAGATCAATCAAAAAAAAAAAAAA AAA

Restriction Sites: Please inquire



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ACCN:	NM_005891
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:	<u>NM_005891.1</u> , <u>NP_005882.1</u>
RefSeq Size:	1490 bp
RefSeq ORF:	1194 bp
Locus ID:	39
UniProt ID:	<u>Q9BWD1</u>
Cytogenetics:	6q25.3
Domains:	thiolase
Protein Families:	Druggable Genome
Protein Pathways:	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
Gene Summary:	<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 (1) represents the predominant transcript and encodes the shorter isoform (1).</p>