

Product datasheet for **SC118156**

SOAT 1 (SOAT1) (NM_003101) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOAT 1 (SOAT1) (NM_003101) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOAT 1
Synonyms:	ACACT; ACAT; ACAT-1; ACAT1; SOAT; STAT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118156 sequence for NM_003101 edited (data generated by NextGen Sequencing)

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ATGGTGGGTGAAGAGAAGATGTCTCTAAGAAACCGGCTGTCAAAGTCCAGGGAAAATCCT
GAGGAAGATGAAGACCAGAGAAACCTGCAAAGGAGTCCCTAGAGACACCTAGTAATGGT
CGAATTGACATAAAACAGTTGATAGCAAAGAAGATAAAGTTGACAGCAGAGGCAGAGGAA
TTGAAGCCATTTTTATGAAGGAAGTTGGCAGTCACTTTGATGATTTTGTGACCAATCTC
ATTGAAAAGTCAGCATCATTAGATAATGGTGGTGCGCTCTCACAACTTTTCTGTTTCTT
GAAGGAGAGAAAAACAACCATAGAGCGAAGGATTTGAGAGCACCTCCAGAACAAGGAAAG
ATTTTTATTGCAAGGCGCTCTCTCTTAGATGAACTGCTTGAAGTGGACCACATCAGAACA
ACATATCACATGTTTATTGCCCTCCTCATTCTCTTTATCCTCAGCACACTTGTAGTAGAT
TACATTGATGAAGGAAGGCTGGTCTTGGTTCAGCCTCCTGTCTTATGCTTTTGGCAA
TTTCTACCGTTGTTGGACCTGGTGGATCATGTTCTGTCTACATTTTCAGTCCCTAT
TTTCTGTTTCAACATTGGGCCACTGGCTATAGCAAGAGTTCTCATCCGCTGATCCGTTCT
CTCTCCATGGCTTTCTTTTCATGATCTCCAGATTGGAGTTCTAGGTTTTGGACCAACA
TATGTTGTGTAGCATATACACTGCCACCAGCTTCCCGGTTTCATCATTATATTGAGCAG
ATTCGTTTTGTAATGAAGGCCACTCATTGTGTCAGAGAGAACGTCCCTCGGGTACTAAAT
TCAGCTAAGGAGAAATCAAGCACTGTTCCAATACCTACAGTCAACCAGTATTTGTAATTC
TTATTTGCTCCTACCTTATCTACCGTGACAGCTATCCCAGGAATCCCCTGTAAGATGG
GGTTATGTTGCTATGAAGTTTGCACAGGCTTTGGTGGCTTTTCTATGTGTAATACATC
TTTGAAAGGCTTTGTGCCCTTGTTCGGAATATCAAACAGGAGCCCTCAGCGCTCGT
GTTCTGGTCTATGTGATTTAACTCCATCTTCCAGGTGTGCTGATTCTCTTCTTACT
TTTTTGCCTTTTGCCTGCTGGCTCAATGCCTTGTGAGATGTTACGCTTTGGTGGAC
AGGATGTTCTATAAGGATTGGTGAACCTCCAGTCATACTCCAATATTATAGAACCTGG
AATGTGGTGGTCCATGACTGGCTATATTACTATGCTTACAAGGACTTTCTCTGGTTTTTC
TCCAAGAGATTCAAATCTGCTGCCATGTTAGCTGTCTTTGCTGTATCTGCTGTAGTACAC
GAATATGCCTTGCTGTTTGGCTTGGCTTTTCTATCCCGTGCTGTTCTGCTCTTCATG
TTCTTTGGAATGGCTTTCAACTTCAATTGCAATGATAGTCGAAAAAGCCGATTGGAAT
GTTCTGATGTGGACTTCTTTTCTTGGCAATGGAGTCTTACTGTCTTTTATTCTCAA
GAATGGTATGCACGTCCGCACTGCTCTGAAAAATCCCACATTTTGGATTATGTCGG
CCACGTTCTGGACTTGTGCTTACGTGTTTTAG
    
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Clone variation with respect to NM_003101.4
 422 t=>c;969 c=>t;1425 c=>g;1577 a=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_003101 unedited
TTGTATACGACTCCTATAGGCGCCGCGNAATTCGCACGAGGCCTGGGCGCCAGGAGAGC
TTCCCGGAGTCGACCTTCTGCTGGCTGCTGTGACCGCTTCCCGGCTCTGCCCTTTG
GCCGAAGTGCCCGCTGCCGGGCGCGGCCCTCAGACAATAACAATGGTGGGTGAAGAGAAGA
TGCTCTAAGAAACCGGCTGTCAAAGTCCAGGGAAAATCCTGAGGAAGATGAAGACCAGA
GAAACCTGCAAAGGAGTCCCTAGAGACACCTAGTAATGGTGAATTGACATAAAACAGT
TGATAGCAAAGAAGATAAAGTTGACAGCAGAGGCAGAGGAATTGAAGCCATTTTTATGA
AGGAAGTTGGCAGTCACTTTGATGATTTTGTGACCAATCTCATTGAAAAGTCAGCATCAT
TAGATAATGGTGGTGGCTCTCACAACTTTTCTGTTCTTGAAGGAGAGAAAAACAACC
ATAGAGCGAAGGATTTGAGAGCACCTCCAGAACAAGGAAAGATTTTATTGCAAGGCGCT
CTCTCTTAGATGAACTGCTTGAAGTGGACCACATCAGAACAACATATCACATGTTTATTG
CCCTCCTCATTCTTTATCCTCAGCACACTTGTAGTAGATTACATTGATGAAGGAAGGC
TGGTGGCTTGAAGTTCAGCCTCCTGTCTTATGCTTTTGGCAAATTTCTACCCTGTTTGG
CCTGGTGGATCATGTTCTGTCTAATTTTTCAGTCCCTATTTTCTGTTTTCACATTGGGCC
ACTGGCTATAGNNCAGAGTCTCATCCGCTGATCCGTTCTCTTTCATGGCTNTCTTTTCA
TGATCTTCANATGGNAGTTCTAGGTTNTGG
    
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RefSeq Size: 3407 bp

RefSeq ORF: 1653 bp

Locus ID: 6646

UniProt ID: [P35610](#)

Cytogenetics: 1q25.2

Domains: MBOAT

Protein Families: Transmembrane

Protein Pathways: Steroid biosynthesis

Gene Summary: The protein encoded by this gene belongs to the acyltransferase family. It is located in the endoplasmic reticulum, and catalyzes the formation of fatty acid-cholesterol esters. This gene has been implicated in the formation of beta-amyloid and atherosclerotic plaques by controlling the equilibrium between free cholesterol and cytoplasmic cholesteryl esters. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2011]
Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.