OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC337233

ACSL1 (NM_001286708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL1 (NM_001286708) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSL1
Synonyms:	ACS1; FACL1; FACL2; LACS; LACS1; LACS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001286708, the custom clone sequence may differ by one or more nucleotides

ATGCAAGCCCATGAGCTGTTCCGGTATTTTCGAATGCCAGAGCTGGTTGACTTCCGACAGTACGTGCGTA
CTCTTCCGACCAACACGCTTATGGGCTTCGGAGCTTTTGCAGCACTCACCACCTTCTGGTACGCCACGAG
ACCCAAACCCCTGAAGCCGCCATGCGACCTCTCCATGCAGTCAGTGGAAGTGGCGGGTAGTGGTGGTGCA
CGAAGATCCGCACTACTTGACAGCGACGAGCCCTTGGTGTATTTCTATGATGATGTCACAACATTATACG
AAGGTTTCCAGAGGGGAATACAGGTGTCAAATAATGGCCCTTGTTTAGGCTCTCGGAAACCAGACCAACC
CTATGAATGGCTTTCATATAAACAGGTTGCAGAATTGTCGGAGTGCATAGGCTCAGCACTGATCCAGAAG
GGCTTCAAGACTGCCCCAGATCAGTTCATTGGCATCTTTGCTCAAAATAGACCTGAGTGGGTGATTATTG
AACAAGGATGCTTTGCTTATTCGATGGTGATCGTTCCACTTTATGATACCCTTGGAAATGAAGCCATCAC
GTACATAGTCAACAAAGCTGAACTCTCTCTGGTTTTTGTTGACAAGCCAGAGAAGGCCAAACTCTTATTA
GAGGGTGTAGAAAATAAGTTAATACCAGGCCTTAAAATCATAGTTGTCATGGATGCCTACGGCAGTGAAC
TGGTGGAACGAGGCCAGAGGTGTGGGGTGGAAGTCACCAGCATGAAGGCGATGGAGGACCTGGGAAGAGC
CAACAGACGGAAGCCCAAGCCTCCAGCACCTGAAGATCTTGCAGTAATTTGTTTCACAAGTGGAACTACA
GGCAACCCCAAAGGAGCAATGGTCACTCACCGAAACATAGTGAGCGATTGTTCAGCTTTTGTGAAAGCAA
CAGAGAATACAGTCAATCCTTGCCCAGATGATACTTTGATATCTTTCTTGCCTCTCGCCCATATGTTTGA
GAGAGTTGTAGAGTGTGTAATGCTGTGTCATGGAGCTAAAATCGGATTTTTCCAAGGAGATATCAGGCTG
CTCATGGATGACCTCAAGGTGCTTCAACCCACTGTCTTCCCCGTGGTTCCAAGACTGCTGAACCGGATGT
TTGACCGAATTTTCGGACAAGCAAACACCACGCTGAAGCGATGGCTCTTGGACTTTGCCTCCAAGAGGAA
AGAAGCAGAGCTTCGCAGCGGCATCATCAGAAACAACAGCCTGTGGGACCGGCTGATCTTCCACAAAGTA
CAGTCGAGCCTGGGCGGAAGAGTCCGGCTGATGGTGACAGGAGCCGCCCCGGTGTCTGCCACTGTGCTGA
CGTTCCTCAGAGCAGCCCTGGGCTGTCAGTTTTATGAAGGATACGGACAGACAGAGTGCACTGCCGGGTG
CTGCCTGACCATGCCTGGAGACTGGACCGCAGGCCATGTTGGGGCCCCGATGCCGTGCAATTTGATAAAA
CTTGTTGATGTGGAAGAAATGAATTACATGGCTGCCGAGGGCGAGGGCGAGGTGTGTGTGAAAGGGCCAA
ATGTATTTCAGGGCTACTTGAAGGACCCAGCGAAAACAGCAGAAGCTTTGGACAAAGACGGCTGGTTACA
CACAGGGGACATTGGAAAATGGTTACCAAATGGCACCTTGAAAATTATCGACCGGAAAAAGCACATATTT
AAGCTGGCACAAGGAGAATACATAGCCCCTGAAAAGATTGAAAATATCTACATGCGAAGTGAGCCTGTTG
CTCAGGTGTTTGTCCACGGAGAAAGCCTGCAGGCATTTCTCATTGCAATTGTGGTACCAGATGTTGAGAC
ATTATGTTCCTGGGCCCAAAAGAGAGGATTTGAAGGGTCGTTTGAGGAACTGTGCAGAAATAAGGATGTC
AAAAAAGCTATCCTCGAAGATATGGTGAGACTTGGGAAGGATTCTGGTCTGAAACCATTTGAACAGGTCA
AAGGCATCACATTGCACCCTGAATTATTTTCTATCGACAATGGCCTTCTGACTCCAACAATGAAGGCGAA
AAGGCCAGAGCTGCGGAACTATTTCAGGTCGCAGATAGATGACCTCTATTCCACTATCAAGGTTTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001286708

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_001286708.1, NP_001273637.1
RefSeq Size:	3776 bp
RefSeq ORF:	2097 bp
Locus ID:	2180
UniProt ID:	P33121
Cytogenetics:	4q35.1
Protein Families:	Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Gene Summary:	The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same isoform (a).