

## Product datasheet for **SC337234**

### ACSL1 (NM\_001286710) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL1 (NM_001286710) 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)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001286710, the custom clone sequence may differ by one or more nucleotides

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ATGCAAGCCCATGAGCTGTTCCGGTATTTTCGAATGCCAGAGCTGGTTGACTTCCGACAGTACGTGCGTA
CTCTTCCGACCAACACGCTTATGGGCTTCGGAGCTTTTCAGCACTCACCACCTTCTGGTACGCCACGAG
ACCCAAACCCCTGAAGCCGCCATGCGACCTCTCCATGCAGTCAGTGAAGTGGCGGGTAGTGGTGGTGCA
CGAAGATCCGCACTACTTGACAGCGACGAGCCCTTGGTGTATTTCTATGATGATGCACAACATTATACG
AAGGTTTTCCAGAGGGGAATACAGGTGTCAATAATGGCCCTTGTTTAGGCTCTCGGAAACAGACCAACC
CTATGAATGGCTTTCATATAAACAGGTTGCAGAATTGTCGGAGTGCATAGGCTCAGCACTGATCCAGAAG
GGCTTCAAGACTGCCCCAGATCAGTTCATTGGCATCTTTGCTCAAAATAGACCTGAGTGGGTGATTATTG
AACAAAGGATGCTTTGCTTATTTCGATGGTGTGCTTCCACTTTATGATACCTTGGAAATGAAGCCATCAC
GTACATAGTCAACAAAGCTGAACCTCTCTGGTTTTTGTGACAAGCCAGAGAAGGCCAAACTCTTATTA
GAGGGTGTAGAAAATAAGTTAATACCAGGCCTTAAATCATAGTTGTGATGGATGCCTACGGCAGTGAAC
TGTTGGAACGAGGCCAGAGGTGTGGGGTGAAGTCACCAGCATGAAGGCGATGGAGGACCTGGGAAGAGC
CAACAGACGGAAGCCCAAGCCTCCAGCACTGAAGATCTTGCAGTAATTTGTTTCAAGTGAAGTACA
GGCAACCCCAAAGGAGCAATGGTCACTACCGAAACATAGTGAGCGATTGTTAGCTTTTGTGAAAGCAA
CAGAGAAAGCACTTCCCTTGAGTGCCAGTGACACACACATTTTCATATTTACCACTTGCTCACATTTATGA
ACAGTTATTGAAGTGTGTAATGCTGTGTCATGGAGCTAAAATCGGATTTTTCCAAGGAGATACAGGCTG
CTCATGGATGACCTCAAGGTGCTTCAACCCACTGTCTTCCCGTGGTCCAAGACTGCTGAACCGGATGT
TTGACCGAATTTTCGGACAAGCAAACACCACGCTGAAGCGATGGCTCTTGACTTTGCCTCCAAGAGGAA
AGAAGCAGAGCTTCGACGCGGCATCATCAGAAACAACAGCCTGTGGGACCGGCTGATCTTCCACAAAGTA
CAGTCGAGCCTGGGCGGAAGAGTCCGGCTGATGGTGACAGGAGCCGCCCGGTGTCTGCCACTGTGCTGA
CGTTCTCAGAGCAGCCCTGGGCTGTCAAGTTTTATGAAGGATACGGACAGACAGAGTGCCTGCGCGGTG
CTGCCTGACCATGCCTGGAGACTGGACCGAGGCCATGTTGGGGCCCGATGCCGTGCAATTTGATAAAA
CTTGTTGATGTGGAAGAAATGAATTACATGGCTGCCGAGGGCGAGGGCGAGGTGTGTGTAAGGCCAA
ATGTATTTTCAAGGCTACTTGAAGGACCCAGCGAAAACAGCAGAAGCTTTGGACAAAGACGGCTGTTTACA
CACAGGGGACATTGGAATGTTACCAAATGGCACCTTGAATATCGACCGGAAAAGCACATTTT
AAGCTGGCACAAGGAGAATACATAGCCCTGAAAAGATTGAAAATATCTACATGCGAAGTGAAGCCTGTTG
CTCAGGTGTTTCCACGGAGAAAGCCTGCAGGCAATTTCTCATTGCAATTGTGGTACCAGATGTTGAGAC
ATTATGTTCTGGGCCAAAAGAGAGGATTTGAAGGGTCGTTGAGGAACTGTGCAGAAAATAGGATGTC
AAAAAAGCTATCCTCGAAGATATGGTGAGACTTGGGAAGGATTCTGGTCTGAAACCAATTTGAACAGGTCA
AAGGCATCACATTGCACCTGAATTATTTCTATCGACAATGGCCTTCTGACTCCAACAATGAAGGCGAA
AAGGCCAGAGCTGCGGAATTTTCAAGTGCAGATAGATGACCTCTATTCACATCAAGGTTTAG
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001286710

**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\\_001286710.1](#), [NP\\_001273639.1](#)

**RefSeq Size:** 3938 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 (3) differs in the 5' UTR and has an alternate in-frame exon in place of another in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini and is the same length but has an alternate internal segment compared to isoform a.