

## Product datasheet for **SC318201**

### ACSL6 (NM\_015256) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACSL6 (NM_015256) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACSL6
Synonyms:	ACS2; FACL6; LACS2; LACS5; LACS 6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



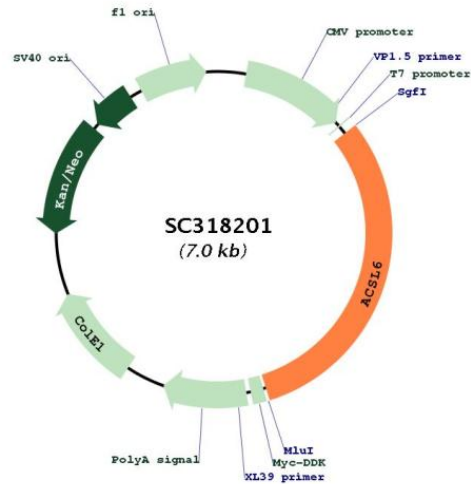
[View online »](#)

**Fully Sequenced ORF:** >SC318201 representing NM\_015256.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGACCTTCTCCTCGTGTCTGGGGGGCTCCCTCTGGCTATTCGTAGAGTTTGTCTCTCACTTCTG
GAGAAGATGCAGACACAGGAGATCCTGAGGACTACTGCGACTGCCTGAGCTAGGTGACTTGGGACAGTTT
TTCCGCAGCCTCTCGGCCACCACCTCGTGAGTATGGGTGCCCTGGCTGCCATCCTTGCCTACTGGTTC
ACTCACCGGCCAAAGGCCTTGCAGCCGCCATGCAACCTCCTGATGCAGTCAGAAGAAGTAGAGGACAGT
GGCGGGGCACGGCGATCTGTGATTGGGTCTGGCCCTCAGCTACTTACCCACTACTATGATGATGCCCGG
ACCATGTACCAGGTGTTCCGCCGTGGGCTTAGCATCTCAGGGAATGGGCCCTGTCTTGGTTTCAGGAAG
CCTAAGCAGCCTTACCAGTGGCTGTCTACCAGGAGGTGGCCGACAGGGCTGAATTTCTGGGGTCCGGA
CTTCTCCAGCACAATTGTAAGCATGCACTGATCAGTTTATTGGTGTTTTGCACAAAATCGGCCAGAG
TGGATCATTGTGGAGCTGGCCTGTACACATATCCATGGTGGTGGTCCCCTCTATGACACCCTGGGC
CCTGGGGCTATCCGCTACATCATCAATACAGCGGACATCAGCACCGTGATTGTGGACAAAACCTCAGAAG
GCTGTGCTTCTGCTAGAGCATGTGGAGAGGAAGGAGACTCCAGGCCTCAAGCTGATCATCCTCATGGAC
CCATTCGAAGAAGCCCTGAAAGAGAGAGGGCAGAAGTGCGGGGTGGTCATTAAGTCCATGACGGCCGTG
GAGGACTGTGGCCAAGAGAATCACCAGGCTCCTGTGCCCCCGCAGCCTGATGACCTCTCCATTGTGTGT
TTCACAAGCGGCACGACAGGGAACCCAAAAGGTGCGATGCTCACCCATGGGAACGTGGTGGCTGATTTT
TCAGGCTTTCTGAAAAGTGACAGAGAGTCACTGGGCTCCCACTTGTGCGGATGTGCACATTTCTATTTG
CCTTTAGCACACATGTTTGAAGCAATGGTGCAGTCTGTGCTTATTGCCACGGAGGGCGTGTGGCTTC
TTCCAGGGAGATATCCGCTTCTCTCAGATGACATGAAGGCTCTATGCCCCACCATCTTCCCTGTGGTC
CCACAGTGTGAACCGGATGTACGACAAGATCTTCAGCCAGGCAAACACACCATTAAAGCGCTGGCTC
CTGGAGTTTGCAGCAAAGCGTAAGCAAGCCGAGGTCCGGAGTGAATCATCAGGAATGATAGTATCTGG
GATGAACTCTTCTTAATAAGATTCAAGGCCAGTCTTGGTGGGTGTGTGCGGATGATTGTTACTGGAGCA
GCCCCAGCATCACCAACAGTTCTGGGATTTCTCCGGGCAGCTCTAGGGTGCCAGGTTTATGAAGGTAT
GGCCAACTGAGTGCACAGCTGGATGTACCTTACCACCTCCTGGCGACTGGACCTCAGGGCAGTAGGG
GCGCCACTTCCCTGCAATCATATCAAGCTGTTGATGTTGAGGAACTGAACTACTGGCCTGCAAAGGA
GAGGGAGAGATATGTGTGAGAGGACCAATGTGTTCAAAGGCTACTTGAAAGATCCAGACAGGACGAAG
GAGGCCCTGGACAGCGATGGCTGGCTTCACTGGAGACATCGGAAAATGGCTGCCGGCAGGAACCTTT
AAAATTATTGATCGGAAAAGCATATATTTAAACTTGCTCAGGGAGAATATGTTGCACCCGAGAAGATT
GAGAACATCTACATCCGGAGCCAACCTGTGGCGCAATCTATGTCCATGGGGACAGCTTAAAGGCCTTT
TTGGTAGGCATTGTTGTGCCTGACCCTGAAGTTATGCCCTCCTGGGCCGAGAAGAGGAATGAAGGA
ACATATGCAGATCTCTGCACAAATAAGGATCTGAAGAAAGCCATTTTGAAGATATGGTGAAGTTAGGA
AAAGAAAGTGGACTCCATTCTTTGAGCAGGTTAAAGCCATTACATCCATTCTGACATGTTCTCAGTT
CAAAATGGCTTGTGACACCAACACTAAAAGCTAAGAGACCTGAGCTGAGAGAGTACTTCAAAAAACA
ATAGAAGAGCTTACTCAATCTCCATGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_015256

**Insert Size:** 2169 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).

**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:**

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\\_015256.3](#)

**RefSeq Size:** 6554 bp

**RefSeq ORF:** 2169 bp

**Locus ID:** 23305

**UniProt ID:** [Q9UKU0](#)

<b>Cytogenetics:</b>	5q31.1
<b>Domains:</b>	AMP-binding
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
<b>MW:</b>	80.5 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene catalyzes the formation of acyl-CoA from fatty acids, ATP, and CoA, using magnesium as a cofactor. The encoded protein plays a major role in fatty acid metabolism in the brain. Translocations with the ETV6 gene are causes of myelodysplastic syndrome with basophilia, acute myelogenous leukemia with eosinophilia, and acute eosinophilic leukemia. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Apr 2011]</p> <p>Transcript Variant: This variant (1) represents one of the two longest transcripts and encodes one of the two longest isoforms (a). 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.</p>