

## Product datasheet for SC317541

### SUCLG1 (NM\_003849) Human Untagged Clone

#### Product data:

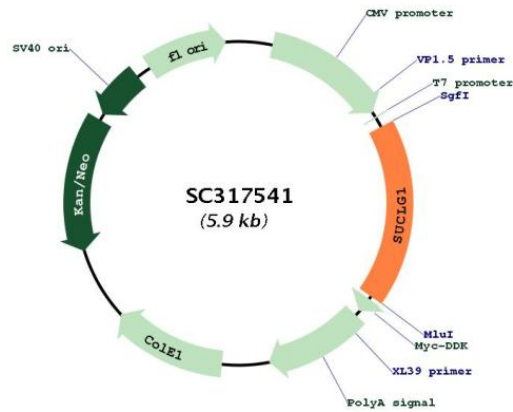
Product Type:	Expression Plasmids
Product Name:	SUCLG1 (NM_003849) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUCLG1
Synonyms:	GALPHA; MTDPS9; SUCLA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317541 representing NM_003849. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGCAACCTTGCCGCTGCCGCTGACATCGCTACCATGGTCTCCGGCAGCAGCGGCCCTCGCCGC
GCCCGTCTCCTGTCGCGCAGCTTCTCCTGCCGAGAATGGAATTCGGCATTGTTCTACACAGCTTCT
CGGCAACATCTCTATGTTGATAAAAATACAAAGATTATTTGCCAGGGTTTCACTGGCAAACAGGGCACC
TTTCACAGCCAGCAGGCATTGGAATATGGCACAAACTCGTTGGAGGAACCACTCCAGGAAAGGAGGC
CAGACACATCTGGGCTTACCTGTCTTTAACTGTGAAGGAGGCCAAAGAACAGACAGGAGCAACGGCT
TCTGTCATTTATGTTCTCCGCCTTTTGTGCTGCTGCCATTAATGAAGCTATTGAGGCAGAAATCCC
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CAGGAAAAGACAAGGCTAATTGGGCCAACTGCCCTGGAGTCATCAATCCTGGAGAATGTAAATGGC
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GAAGCAGTTCACCAACAACGCAAGTTGGATTGGGGCAGTCTTTGTGCGTTGGCATTGGAGGTGATCCT
TTAATGGAACAGATTTTATTGACTGCCTCGAAATCTTTTTGAACGATTCTGCCACAGAAGGCATCATA
TTGATTGGTGAATTTGGTGGTAATGCAGAAGAGAATGCTGCAGAATTTTGAAGCAACATAATTCAGGT
CCAAATCCAAGCCTGTAGTGCCTTCATTGCTGGTTAACTGCTCCTCCTGGGAGAAGAATGGGTCAT
GCCGGGCAATTATTGCTGGAGGAAAAGGTGGAGCTAAAGAGAAGATCTCGCCCTCAGAGTGCAGGA
GTTGTGGTCAGTATGCTCCTGCACAGCTGGGAACCACGATCTACAAGGAATTTGAAAAGAGGAAGATG
CTATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_003849

**Insert Size:** 1041 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\\_003849.3](#)

**RefSeq Size:** 1475 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 8802

<b>UniProt ID:</b>	<u>P53597</u>
<b>Cytogenetics:</b>	2p11.2
<b>Domains:</b>	CoA_binding, ligase-CoA
<b>Protein Pathways:</b>	Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism
<b>MW:</b>	36.2 kDa
<b>Gene Summary:</b>	This gene encodes the alpha subunit of the heterodimeric enzyme succinate coenzyme A ligase. This enzyme is targeted to the mitochondria and catalyzes the conversion of succinyl CoA and ADP or GDP to succinate and ATP or GTP. Mutations in this gene are the cause of the metabolic disorder fatal infantile lactic acidosis and mitochondrial DNA depletion. [provided by RefSeq, Feb 2010]