

## Product datasheet for SC317700

### SUCLG2 (NM\_003848) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SUCLG2 (NM_003848) Human Untagged Clone
Tag:	Tag Free
Symbol:	SUCLG2
Synonyms:	G-SCS; GBETA; GTPSCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317700 representing NM_003848. Blue=Insert sequence Red=Cloning site Green=Tag(s)

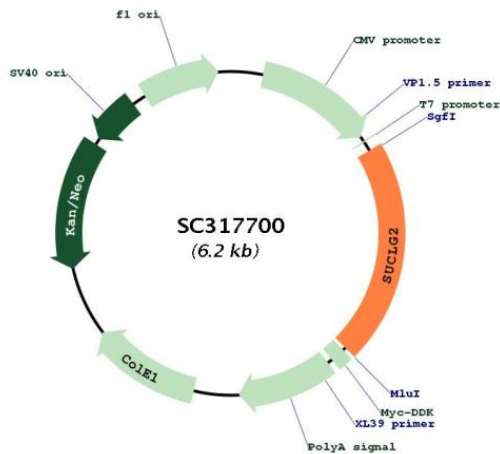
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_003848

Insert Size: 1299 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\\_003848.3](#)

RefSeq Size: 2363 bp

RefSeq ORF: 1299 bp

Locus ID: 8801

UniProt ID: [Q96I99](#)

Cytogenetics: 3p14.1

Protein Pathways: Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism

MW: 46.5 kDa

**Gene Summary:** This gene encodes a GTP-specific beta subunit of succinyl-CoA synthetase. Succinyl-CoA synthetase catalyzes the reversible reaction involving the formation of succinyl-CoA and succinate. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 5 and 12. [provided by RefSeq, Apr 2010]  
Transcript Variant: This variant (2) differs in the 3' UTR, and 3' coding region, compared to variant 1. The encoded isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1.