

Product datasheet for **RG208298**

SUCLG2 (NM_003848) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SUCLG2 (NM_003848) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SUCLG2
Synonyms:	G-SCS; GBETA; GTPSCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208298 representing NM_003848 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGACAACGGAGTGAGAGTTCAAAGATTCTTTGTAGCAGACACTGCAAATGAAGCTCTCGAGGCTG
CTAAGAGACTAAATGCAAAGAAATTGTTTTAAAAGCCCAGATCTTAGCTGGAGGAAGAGGAAAAGGTGT
CTTCAATAGTGGTTTAAAGGAGGTGTTCAATTTAAACAAAAGACCCTAATGTTGTGGGACAGCTGGCTAAA
CAGATGATTGGGTACAATCTAGCGACAAAACAACTCCAAAAGAAGGTGTGAAAGTTAACAAAGGTGATGG
TTGCTGAAGCCTTGGATATTTCCAGAGAAACCTACCTGGCAATCTGATGGACCGTCTGCAATGGCCC
CGTGCTGGTGGCAGCCCCAGGGGGCGTCGACATTGAAGAGGTGGCTGCTCAAACCCGGAGCTCATT
TTTAAGGAGCAAATTGACATTTTTGAAGGAATAAAGGACAGCCAAGCTCAGCGGATGGCCGAAAACTAG
GCTTCGTTGGGCCTTTGAAAAGCCAGGCTGCAGATCAAATTACGAAGCTGTATAATCTCTTCCTGAAAAAT
TGATGCTACTCAGGTGGAAGTGAATCCCTTTGGTAAAACCCAGAAGGACAAGTTGTCTGTTTTGATGCC
AAGATAAACTTTGATGACAACGCAGAATCCGACAAAAAGACATATTTGCTATGGACGACAAATCAGAGA
ATGAGCCCATTGAAAATGAAGCTGCCAAATATGATCTAAAATACATAGGACTAGATGGGAACATTGCCTG
CTTTGTGAATGGTGTGGCTCGCCATGGCTACTTGTGATATCATTTTCCTTAATGGTGGGAAGCCAGCC
AACTTCTTGGATCTTGGAGTGGTGAAGGAAGCTCAAGTATATCAAGCATTCAAATGCTCACAGCTG
ATCCTAAGGTTGAAGCCATCCTTGTCAATATATTTGGTGGTATCGTCAACTGTGCCATCATTGCCAATGG
GATCACCAAAAGCCTGCCGGAGCTAGAAGTCAAGGTGCCCTGGTGGTCCGGCTTGAAGGAACCAACGTC
CAAGAGGCCCAGAAGATACTCAACAACAGCGGACTCCCCATTACTTCAGCCATTGACCTGGAGGATGCAG
CCAAGAAGGCTGTGGCCAGTGTGGCCAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG208298 representing NM_003848
 Red=Cloning site Green=Tags(s)

MSDNGVRVQRFFVADTANEALEAAKRLNAKEIVLKAQILAGGRGKGVFNSGLKGGVHLTKDPNVVGLAK
 QMIGYNLATKQTPKEGVKNKVMVAEALDISRETYLAILMDRSCNGPVLVGSPPQGGVDIEEVAASNPELI
 FKEQIDIFEGIKDSQAQRMAENLGFVGPLKSQAADQITKLYNLFLKIDATQVEVNPFGETPEGQVVCFDA
 KINFDDNAEFRQKIDIFAMDDKSENEPIEENAAKYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGKPA
 NFLDLGGGVKEAQVYQAFKLLTADPKVEAILVNIFFGGIVNCAIIANGITKACRELELKVPLVVRLEGTNV
 QEAQKILNNSGLPITSAIDLEDAAKKAVASVAKK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003848

ORF Size: 1152 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003848.1](#), [NP_003839.1](#)

RefSeq Size: 2369 bp

RefSeq ORF: 1299 bp

Locus ID: 8801

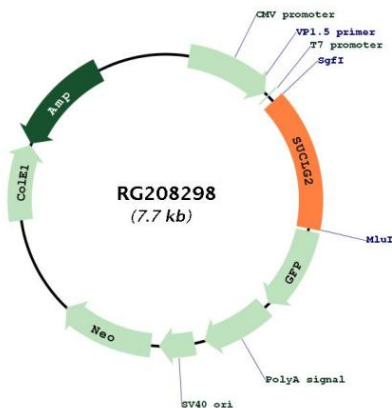
UniProt ID: [Q96I99](#)

Cytogenetics: 3p14.1

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

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]

Product images:



Circular map for RG208298