

## **Product datasheet for RC211439L3**

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# SUCLG1 (NM\_003849) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: SUCLG1 (NM 003849) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: SUCLG1

Synonyms: GALPHA; MTDPS9; SUCLA1

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

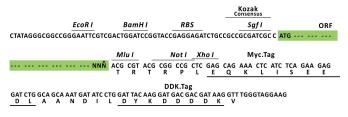
**ORF Nucleotide** The ORF insert of this clone is exactly the same as(RC211439).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_003849

ORF Size: 1038 bp





#### SUCLG1 (NM\_003849) Human Tagged Lenti ORF Clone - RC211439L3

**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:** <u>NM 003849.2</u>

RefSeq Size: 1470 bp
RefSeq ORF: 1041 bp
Locus ID: 8802

 UniProt ID:
 P53597

 Cytogenetics:
 2p11.2

**Domains:** CoA\_binding, ligase-CoA

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

**MW:** 36.25 kDa

**Gene Summary:** 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]