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# Product datasheet for RC211439L4V

## SUCLG1 (NM_003849) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | SUCLG1 (NM_003849) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | SUCLG1 |
| **Synonyms:** | GALPHA; MTDPS9; SUCLA1 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_003849 |
| **ORF Size:** | 1038 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC211439). |
| **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. |
| **RefSeq:** | NM_003849.2 |
| **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 |

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**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]