

## Product datasheet for SC117713

### 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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117713 sequence for NM_003849 edited (data generated by NextGen Sequencing)

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ATGACCGCAACCCTTGCCGCTGCCGCTGACATCGTACCATGGTCTCCGGCAGCAGCGGC
CTCGCCGCGCCCGTCTCCTGTGCGCGCAGCTTCCTCCTGCGCAGAATGGAATTCGGCAT
TGTTCTACACAGCTTCTCGGCAACATCTCTATGTTGATAAAAAATACAAAGATTATTTGC
CAGGGTTTCACTGGCAAACAGGGCACCTTTCACAGCCAGCAGGCATTGGAATATGGCACC
AAACTCGTTGGAGGAACCACTCCAGGAAAGGAGGCCAGACACATCTGGGCTTACCTGTC
TTTAATACTGTGAAGGAGGCCAAAGAACAGACAGGAGCAACGGCTTCTGTCATTTATGTT
CCTCCGCCTTTTGCTGCTGCTGCCATTAATGAAGCTATTGAGGCAGAAATTCCTTGTT
GTGTGTATCACTGAAGGAATTCCTCAGCAGGACATGGTACGAGTCAAGCACAAACTGCTG
CGCCAGGAAAAGACAAGGCTAATTGGGCCAACTGCCCTGGAGTCATCAATCCTGGAGAA
TGTAATAATTGGCATCATGCCTGGCCATATTCACAAAAAAGGAAGATTGGCATTGTGTCC
AGATCTGGCACCCCTGACTTATGAAGCAGTTCACCAAACAACGCAAGTTGGATTGGGGCAG
TCTTTGTGCGTTGGCATTGGAGGTGATCCTTTTAAATGGAACAGATTTTATTGACTGCCTC
GAAATCTTTTGAACGATTCTGCCACAGAAGGCATCATATTGATTGGTGAAATTTGGTGGT
AATGCAGAAGAGAATGCTGCAGAATTTTGAAGCAACATAATTCAGGTCCAAATTCCAAG
CCTGTAGTGTCTTCATTGCTGGTTTAACTGCTCCTCCTGGGAGAAGAATGGGTCATGCC
GGGGCAATTATTGCTGGAGGAAAAGGTGGAGCTAAAGAGAAGATCTGCCCCTTCAGAGT
GCAGGAGTTGTGGTCAGTATGTCCTCCTGCACAGCTGGGAACCACGATCTACAAGGAATTT
GAAAAGAGGAAGATGCTATGA
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Clone variation with respect to NM\_003849.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_003849 unedited TTTTGTATACGACTCCTATAGGCGGCCGGAATTCGGCACGAGGGAGAGAGAGAGAGAGA GA GAGAGATGACCGCAACCCCTTGCCGCTGCCGCTGACATCGTACCATGGTCTCCGGCAGCA GCGGCCTCGCCGCGCCCGTCTCCTGTGCGCGCAGCTTCTCCTGCCGAGAAATGGAATTC GGCATGTTCTACACAGCTTCTCGGCAACATCTCTATGTTGATAAAAAACAAAAGATTA TTTGCCAGGGTTTCACTGGCAAACAGGGCACCTTTCACAGCCAGCAGGCATTGGAATATG GCACAAAACCTCGTTGGAGGAACCACTCCAGGAAAGGAGGCCAGACACATCTGGGCTTAC CTGTCTTTAATACTGTGAAGGAGCCAAAGAACAGACAGGAGCAACGGCTTCTGTCAATTT ATGTTCTCCGCTTTTCTGCTGCTGCCATTAATGAAGCTATTGAGGCAGAAATTCCTT TGGTTGTGTGTACTGAAGGAATTCAGCAGGACATGGTACGAGTCAAGCACAAAC TGCTGCGCCAGGAAAAGACAAGGCTAATTGGGCCCAACTGCCCTGGAGTCATCAATCCTG GAGAATGTAATTTGGCATCATGCCTGGCCATATTCACAAAANAGGAAGGATTGGCATTG TGTCAGATCTGGCACCCTGACTTATGAAGCAGNTCACCANNACAACGCAGTTGGATTGG GGCAGTCTTTGTGCGTTGGCATTGAGNAGTATCCTTTNTATGGAACAGATTTATTGACT GCCTCAAATCTTTTGGACGATNCTGCCACAGAAGCATCATATTGATTGTGAAAATGGTG GC
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003849 unedited GACCGCGGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGAATAAATAGTAGA TTTATTGGCTGTCTGTGAATACAATGTGGTGAAAACGCTTAATTCAGGACATCTTCCA CCTTGTTTTGGCTCCAGTTGTACTGCAAGACCAGTGTGAGGCACATAGGCTGATTAATC AGTGGACAACAGAAGCAAAGTGTGCTGGGTTACATGTCTACGTATCCATTCCACAGTT TTAGGAATTTTTTTTTTTCTTTCATAGCATCTTCTCTTTTCAAATTCCTGTAGATCGTG GTTCCAGCTGTGCAAGGAGACATACTGACCACAACCTGCACTCTGAAGGGCAGAGATC TTCTCTTTAGCTCCACCTTTTCTCCAGCAATAATTGCCCGGCATGACCCATTCTTCTC CCAGGAGGAGCAGTTAAACCAGCAATGAAGGACACTACAGGCTTGGAAATTTGGACCTGAA TTATGTTGCTTCAAAAATCTGCAGCATCTCTTCTGCATTACCACCAATTTACCAATC AATATGATGCCTTCTGTGGCAGAATCGTTCAAAAAGATTTGAGGCAGTCAATAAAATCT GTCCCATTAAGATCACCTTCCATGCCAACGCACAAAGACTGCCCAATCCAACCTTGGC TTGTTTTGTGAAAATGGCCAGCCATGATGCCATTTTTACATTTTCCAGATTGATGATC CTTTTTTGTGAAAATGGCCAGCCATGATGCCATTTTTACATTTTCCAGATTGATGATC CCAGGGCAGTTTGGGCCAAATAACCTTGTCTTTTCTGCCCCACAAGTTGGGCTTGATTC TACCATGTCTGCTGGGAATCTTTAGGATACCCCAAACCAAGAAATCTGCCTCAATA T
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003849
<b>Insert Size:</b>	1390 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003849.1</a> , <a href="#">NP_003840.1</a>
<b>RefSeq Size:</b>	1227 bp
<b>RefSeq ORF:</b>	1002 bp
<b>Locus ID:</b>	8802
<b>UniProt ID:</b>	<a href="#">P53597</a>
<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>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]