

Product datasheet for **MC202753**

Suclg2 (NM_011507) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suclg2 (NM_011507) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Suclg2
Synonyms:	AF171077; AW556404; D6Wsu120e; G-SCS; GTPSCS; SCS-betaG
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC080781 sequence for NM_011507
AAGAGGTAATCCGGTTCCTGGTTAAGATGGCGTCCCCGGTGGCCATCGCGGCGCAGGCTGGGAAGCTTCT
GCGAGAGCGAGCGCTGCGGCCGCTCCTGGCGGTGAGTCCCAGGCCGGTCACTTAACCCCCGAAGATGG
CTGAACCTGCAGGAGTACCAGAGCAAGAAGCTCATGTGAGAGCACGGAGTGAGAGTGAGAGGTTCTTTG
TTGCCAACACTGCTAAAGAGGCTCTGGAGGCAGCAAGAGATTGAATGCAAAAAGAAATGTTTTAAAGC
CCAGATCTTAGCTGGAGGAAGAGGAAAAGTGTCTTCAATAGCGGTTTGAAGGAGGTGTTCAATTAACA
AAAGACCCTAAAGTAGTGGGAGAGTTGGCTCAACAGATGATTGGTTATAATCTAGCAACGAAACAAACTC
CAAAAAGAGGTGTGAAAGTTAACAAGGTGATGGTTGCTGAAGCCCTGGATATTTCTAGAGAAACATACTT
GGCCATTCTAATGGACCGTCCCATAATGGCCCTGTGATAGTGGCAGTCTCAGGGGGCGTTGATATT
GAGGAAGTGGCAGCTCCAGTCCAGAACTCATCTTTAAGGAGCAGATTGACATCTTTGAAGGGATAAAGG
ATAGCCAGGCCAGCGCATGGCAGAAAAACCGGGCTTCTTGGGTCTCTGAAAAACCAGGCTGCAGATCA
GATTACAAAGCTGTACCATCTCTTCTGAAGATTGATGCCACTCAGGTGGAAGTGAACCCCTTCGGTGAA
ACTCCAGAAGGACAAGTTGTCTGTTTTGATGCCAAGATAAACTTTGATGACAATGCTGAGTTCGACAAA
AGGACATATTTGCTATGGACGACAAATCCGAGAATGAGCCATTGAAAATGAAGTGCAGATACGATCT
CAAGTATATAGGACTGGACGGGAACATTGCCTGCTTCGTGAATGGTGCTGGGCTGGCCATGGCTACCTGC
GACATCATCTTCTGAACGGAGGGAAGCCAGCGAACTTCTGGACCTTGGAGGTGGTGTAAAGGAAGCCC
AAGTCTATGAAGCATTCAAAGTCTCACGTCTGACCCCAAGGTGGAAGCCATTCTCGTCAATATCTTTGG
TGGGATCGTCAACTGTGCCATCATTGCCAACGGAATCACCAAAGCCTGCCGGGAGCTGGAGCTCAAGGTG
CCACTGGTAGTCCGGCTTGAAGGAATAATGTGCAGGAGGCTCAGAAATCCTCAAGAGCAGCGGACTCC
CCATCACGTGAGTGGACCTGGAGGATGCAGCCAAGAAAGCTGTTGCCAGTGTGGCAAAGAAGTGATG
CTCTCCCTGGCTCCCATGAAGAAGGGCATGTCCCTGACTACTGTGAAAGCAATTGTTTTCTACTGGGAA
GGGACACACACAAGGATCATCATGTGAAAAATTAAGTCTGAACTTTCTCAAATACGTTATCCAGAGTG
CCTAAAGCTGAATTTATACTGTAGTCATTGTTAAAAAATACTCACTCCTTACAATTTACATCTTCTC
TTGCCATTTCAGTAGCAGGGTCTACCAGCTCTGGGCCACAGTCAGTTTAGCCAAATAGTGTGCATACATA
CAGTATTTAAAGCCAGATCTAGGTTCAATCACAAGGGCATTATTTCTACATTAGAAAATTTTACAGGACC
CTCAAGTTCAGACAGGCTGATATTTAACATAGTGGCTTCCAGAAGGGTACAGCTAAGACACCTGAGCTTC
TGTGACCAGTGGCCTCCACTGGCCCTAATTCCAGTACATTAAGAAAGCCATGAACATTCTAAAGTGT
GGCTTATATTGGGCATCCCGTGTGATATATGTACATTGCACACATTTTACCCTGTGCCTAATGTTGAA
TCTACTGTTTGCCTCACACTAAGTACTACCAGAAGCCTTAGTCATGGGTGTGAGGTGGAAGGTTTCATT
TTGTGTCAGAGTTGCTGAATGTTAATCTATTTTATAAAGAGTCACTAATGATCTAGCTGCTGGTAGCG
GCCAGGCTTTCCCTCTTGTCCCTCCACCTCACATCTATCAGTTTGCCACAGAAAGATGAGAGATGCCA
TTGGACAGAATGTGACCTTCTAATGATGTCTTTTTTGTGACAGGAATTTCTTAACCTGATTTTTTTG
ATTAATTTTTGATAAATTTATAGTCCTATACATTTTAAATAAAATTTGTTTTTCAGTGCTAAAAAATAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_011507

Insert Size: 1302 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).

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:	<ol style="list-style-type: none">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>BC080781</u> , <u>AAH80781</u>
RefSeq Size:	2243 bp
RefSeq ORF:	1302 bp
Locus ID:	20917
UniProt ID:	<u>Q9Z2I8</u>
Cytogenetics:	6 44.63 cM
Gene Summary:	<p>GTP-specific succinyl-CoA synthetase functions in the citric acid cycle (TCA), coupling the hydrolysis of succinyl-CoA to the synthesis of GTP and thus represents the only step of substrate-level phosphorylation in the TCA. The beta subunit provides nucleotide specificity of the enzyme and binds the substrate succinate, while the binding sites for coenzyme A and phosphate are found in the alpha subunit.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>