

Product datasheet for **MR206910**

Suclg2 (NM_011507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suclg2 (NM_011507) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Suclg2
Synonyms:	AF171077; AW556404; D6Wsu120e; G-SCS; GTPSCS; SCS-betaG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206910 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGTCCCGGTGGCCATCGCGGCGCAGGCTGGGAAGCTTCTGCGAGAGCGAGCGCTGCGGCCGCTCC
 TGGCGGTCAAGTCCCAGGCCGGTCACTTAACCCCCGAAGATGGCTGAACCTGCAGGAGTACCAGAGCAA
 GAAGCTCATGTCAGAGCACGGAGTGAGAGTGCAGAGGTTCTTTGTTGCCAACACTGCTAAAAGAGGCTCTG
 GAGGCAGCCAAGAGATTGAATGCAAAAGAAATTGTTTTAAAAGCCAGATCTTAGCTGGAGGAAGAGGAA
 AAGGTGTCTTCAATAGCGGTTTAAAGGAGGTGTTCAATTAACAAAAGACCCTAAAGTAGTGGGAGAGTT
 GGCTCAACAGATGATTGGTTATAATCTAGCAACGAAACAACTCCAAAAGAAGGTGTGAAAGTTAACAAG
 GTGATGGTTGCTGAAGCCCTGGATATTTCTAGAGAAACATACTGGCCATTCTAATGGACCGGTCCCATA
 ATGGCCCTGTGATAGTGGCAGTCTCAGGGGGCGTTGATATTGAGGAAGTGGCAGCTCCAGTCCAGA
 ACTCATCTTTAAGGAGCAGATTGACATCTTTGAAGGGATAAAGGATAGCCAGGCCAGCGCATGGCAGAA
 AATCCGGGCTTCCTTGGGTCTCTGAAAAACCAGGCTGCAGATCAGATTACAAAGCTGTACCATCTCTTCC
 TGAAGATTGATGCCACTCAGGTGGAAGTGAACCCCTTCGGTGAAGTCCAGAAGGACAAGTTGTCTGTTT
 TGATGCCAAGATAAACTTTGATGACAACTGCTGAGTTCGACAAAAGGACATATTTGCTATGGACGACAAA
 TCCGAGAATGAGCCATTGAAAATGAAGCTGCCAGATACGATCTCAAGTATATAGGACTGGACGGGAACA
 TTGCTGCTTCGTGAATGGTGTGGGCTGGCCATGGCTACCTGCGACATCATCTTCTGAACGGAGGGAA
 GCCAGCGAATCTTTGGACCTTGGAGGTGGTGTAAAGGAAGCCCAAGTCTATGAAGCATTCAAATGCTC
 ACGTCTGACCCCAAGGTGAAGCCATTCGTCAATATCTTTGGTGGGATCGTCAACTGTGCCATCATTG
 CCAACGGGAATCACCAAGCCTGCCGGGAGCTGGAGCTCAAGGTGCCACTGGTAGTCCGGCTTGAAGGAAC
 TAATGTGCAGGAGGCTCAGAATATCCTCAAGAGCAGCGGACTCCCCATCAGCTCAGCTGTGGACCTGGAG
 GATGCAGCCAAGAAAGCTGTTGCCAGTGTGCAAAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206910 protein sequence
 Red=Cloning site Green=Tags(s)

MASPVAIAAQAGKLLRERLRPLLAVRSQAGHLTPRRWLNLEQYQSKKLMSEHGVRVQRFVANTAKEAL
 EAAKRLNAKEIVLKAQILAGGRGKGVFNLSGLKGGVHLTKDPKVVGELAQQMIGYNLATKQTPKEGVKVNK
 VMVAEALDISRETYLAAILMDRSHNGPVI VGSPPQGGVDIEEVAASSPELIFKEQIDIFEGIKDSQAQRMAE
 NPGFLGSLKNQAADQITKLYHLFLKIDATQVEVNPFGETPEGQVVCDAKINFDDNAEFRQKIDIFAMDDK
 SENEPIEENEAARYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGKPANFLDLGGVKEAQVYEAFKLL
 TSDPKVEAILVNIFFGGIVNCAIIANGITKACRELELKVPLVVRLEGNTVQEAQNILKSSGLPITSAVDLE
 DAAKAVASVAKK

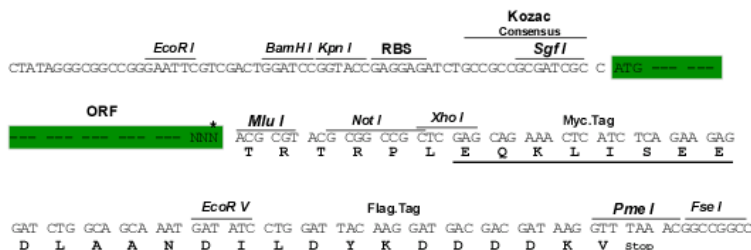
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_011507

ORF Size: 1302 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_011507.1](#)

RefSeq Size: 3447 bp

RefSeq ORF: 1302 bp

Locus ID: 20917

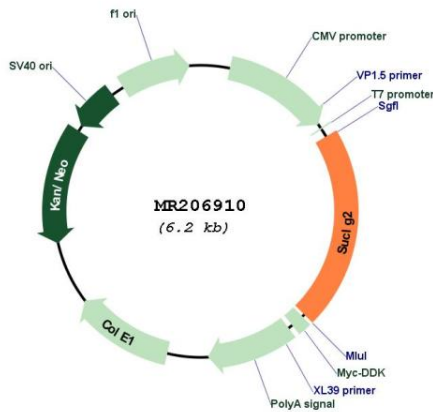
UniProt ID: [Q9Z2I8](#)

Cytogenetics: 6 44.63 cM

MW: 46.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR206910