

Product datasheet for **MR204912**

Suclg1 (NM_019879) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Suclg1 (NM_019879) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Suclg1
Synonyms: 150000I01Rik; Sucla1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204912 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTCTCCAGCAGCAGCGGCCTCGCCGCCGCCCTGTTGTCGCGCACCTTCTCTGCAACAGAATG
GGATACGACACGGGTCTTACACAGCCTCTCGGAAACATATCTATATTGATAAAAAACGAAGATTATTTG
CCAGGGTTTCACAGGCAAACAGGGTACCTTTCACAGCCAGCAGGCTTTGGAGTACGGCACAAACTCGT
GGAGGAACCACTCCAGGGAAGGGTGGCCAGAAGCACCTGGGCTTGCCCGTCTTAACTGTGAAGGAAG
CCAAAGAGAAAACAGGAGCGACGGCTTCTGTCATCTATGTCCCTCCTCTTTTGTGCTGCTGCCATTAA
TGAAGCAATCGACGGGAGATCCCTTGGTTGTGTGCATTACGGAAGGTATCCGCAGCAGGATATGGTG
CGGGTCAAGCACAGACTGACACGCCAGGGAACGACGAGGCTAATCGGGCCAAACTGCCCGCGTCATCA
ACCCTGGAGAATGCAAAATCGGCATCATGCCTGGCCACATTACAAAGAAGGGAAGAATAGGTATCGTGTC
CAGGTCCGGTACTCTGACTTACGAAGCAGTTCACCAAAACAACCAAGTCGGATTGGGGCAGTCTTGTGT
ATTGGCATTGGAGGTGACCCTTTAATGGGACTGATTTTATTGATTGCCTTGAAGTCTTCTGAATGATC
CAGCCACAGAAGGCATCATACTGATTGGTGAATGGTGGTACGCTGAAGAAAATGCTGCCCGTTTCT
GAAGGAGCATAACTCAGGTCAAAGGCCAAGCCTGTAGTGTCTTCATTGCTGGTATAACTGCTCCTCCT
GGCAGAAGGATGGGCCATGCAGGGCAATTATTGCTGGAGGAAAAGGTGGCGCTAAAGAGAAGATCTCTG
CTCTTCAGAGTGTGGGTGGTTGTGTCAGCATGTCCCCGCACAGCTGGGAACCTACCATTTATAAGGAGTT
TGAAGAAGGAAGATGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204912 protein sequence
 Red=Cloning site Green=Tags(s)

MVSSSSGLAAARLLSRTFLLQNGIRHGSYASRKHIYIDKNTKIICQGFTGKQGTFFHSQQALEYGTKLV
 GGTPPGKGGQKHLGLPVFNTVKEAKEKTGATASVIYVPPPFAAAAINEAIDAEIPLVVCITEGIPQQDMV
 RVKHRLTRQGTTRLIGPNCPGVINPGECKIGIMPGHIHKKGRIGIVSRSGTLTYEAVHQTTQVGLGQSLC
 IGIGDPPFNGTDFIDCLEVFLNDPATEGIILIGEIGGHAEEENAAFLKEHNSGPKAKPVVFSFIAGITAPP
 GRRMGHAGAIAGGKGGAKEKISALQSAGVVVSMSPAQLGTTIYKEFEKRKML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019879

ORF Size: 1002 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_019879.1](#), [NM_019879.2](#), [NP_063932.1](#)

RefSeq Size: 1407 bp

RefSeq ORF: 1041 bp

Locus ID: 56451

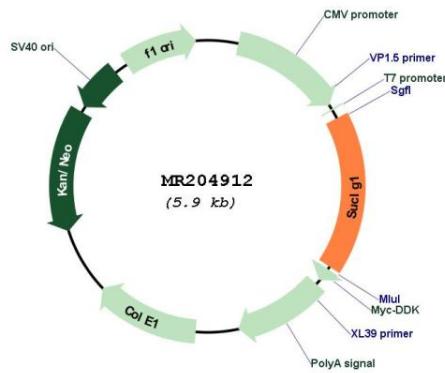
UniProt ID: [Q9WUM5](#)

Cytogenetics: 6 C1

MW: 35 kDa

Gene Summary: Succinyl-CoA synthetase functions in the citric acid cycle (TCA), coupling the hydrolysis of succinyl-CoA to the synthesis of either ATP or GTP and thus represents the only step of substrate-level phosphorylation in the TCA. The alpha subunit of the enzyme binds the substrates coenzyme A and phosphate, while succinate binding and specificity for either ATP or GTP is provided by different beta subunits.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204912