

Product datasheet for **RR213859**

Suclg1 (NM_053752) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suclg1 (NM_053752) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Suclg1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213859 representing NM_053752 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGACCGCAGCGGTAGTTGCTGCGGCTGCCACTGCAACCATGGTCTCCGGCAGCAGCGGCCCTTGCCGCCG
CCCGCTGTGTCGCGCACCTTCCTCCTGCAACAGAATGGAATACGGCACGGGTCTTACACAGCCTCTCG
GAAAAATATCTATATTGATAAAAAATACGAAGTTATTTGCCAGGTTTCACAGGCAAGCAGGGTACCTTT
CACAGCCAGCAGGCTTTGGAGTACGGCACCAAACCTCGTGGGAGGAACCACTCCAGGGAAAGGGGCAAGA
AGCACCTGGGCTTACCTGTCTTTAATACTGTGAAGGAAGCCAAAGAGAAAACAGGAGCGACAGCTTCTGT
CATTTATGTCCCTCCTCCTTTGCTGCTGCCCATCAATGAAGCAATTGACGCAGAGATTCCCTTGGTT
GTGTGCATTACTGAAGGTATTCCGCAGCAGGACATGGTGCGGTCAAGCACAAGCTGACACGCCAGGGGA
AGACGAGGCTAATTGGCCAAACTGCCCGGTATCATCAACCCTGGAGAATGCAAATCGGCATCATGCC
TGGCCACATTACAAGAAAGGAAGAATAGGTATCGTGTCCAGGTCGGTACTCTGACTTATGAAGCAGTT
CACCAAACAACCAAGTTGGATTGGGGCAGTCCTTGTGTATTGGCATTGGAGGTGACCCTTTAATGGGA
CTAATTTTATTGATTGCCTTGACGTCTTCTGAAGGATCCAGCTACAGAAGGCATCGTACTGATTGGTGA
AATTGGTGGTCACGCTGAAGAAAATGCTGCGGAGTTTCTGAAGGAGCATAACTCAGGTCCAAAGGCCAAG
CCTGTAGTGTCTTATTGCTGTTAATACTGCTCCTCCTGGCAGAAGGATGGGCCACGCAGGGGCGATTA
TTGCTGGAGGAAAAGGTGGCGCCAAAGAGAAGATCTCTGCTCTTTCAGAGTGCAGGTTAATTGTCAGCAT
GTCCCCGCACAGCTGGGAACCTGCATGTATAAGGAATTTGAAAAGAGGAAGATGCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213859 representing NM_053752
 Red=Cloning site Green=Tags(s)

MTAAVVAAAATATMVSGSSGLAAARLLSRTFLLQQNGIRHGSYASRKNIIYDKNTKVICQGF⁺TGKQGT
 HSQQALEYG⁺TKLVGGTTPGKGGKHLGLPVFNTVKEAKEK⁺TGATASVIYPPPF⁺AAAAINEAIDAEIPLV
 VCIT⁺EGIPQ⁺QDMVRVKHKLTRQ⁺GKTRLIGPNC⁺PGIINPGECKIGIMP⁺GH⁺IHKKGRIGIVSR⁺SGTLTYEAV
 HQTTQVGLGQSLCIGIGGDPFNGTNFIDCLDVLKDPATEGIVLIGEIGGHAEE⁺NAAEFLKEHNSGPKAK
 PVVSFIAGITAPGRRMGHAGAI⁺IAGGKGAKEKISALQSAGVIVSMSPAQLGTCMYKEFEK⁺RMKL

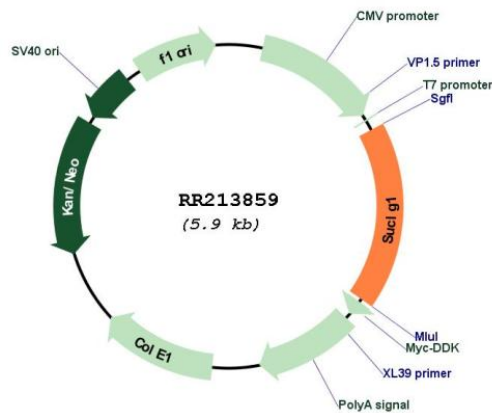
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053752

ORF Size:	1038 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:	<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:	NM_053752.2 , NP_446204.2
RefSeq Size:	1273 bp
RefSeq ORF:	1041 bp
Locus ID:	114597
UniProt ID:	P13086
Cytogenetics:	4q31
MW:	36.1 kDa
Gene Summary:	alpha subunit of succinate-CoA ligase, which catalyzes the conversion of succinate and CoA to succinyl-CoA in the tricarboxylic acid cycle [RGD, Feb 2006]