OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG204912

Suclg1 (NM_019879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Suclg1 (NM_019879) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Suclg1
Synonyms:	1500000I01Rik; Sucla1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204912 representing NM_019879
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCTCCAGCAGCAGCGGCCTCGCCGCCGCCCGCCTGTTGTCGCGCACCTTCCTCCTGCAACAGAATG
GGATACGACACGGGTCTTACACAGCCTCTCGGAAACATATCTATATTGATAAAAATACGAAGATTATTTG
CCAGGGTTTCACAGGCAAACAGGGTACCTTTCACAGCCAGCAGGCTTTGGAGTACGGCACCAAACTCGTG
GGAGGAACCACTCCAGGGAAGGGTGGCCAGAAGCACCTGGGCTTGCCCGTCTTTAATACTGTGAAGGAAG
CCAAAGAGAAAACAGGAGCGACGGCTTCTGTCATCTATGTCCCTCCTCCTTTTGCTGCTGCTGCCATTAA
TGAAGCAATCGACGCGGAGATTCCCTTGGTTGTGTGCATTACGGAAGGTATTCCGCAGCAGGATATGGTG
CGGGTCAAGCACAGACTGACACGCCAGGGAACGACGAGGCTAATCGGGCCAAACTGCCCCGGCGTCATCA
ACCCTGGAGAATGCAAAATCGGCATCATGCCTGGCCACATTCACAAGAAGGGAAGAATAGGTATCGTGTC
CAGGTCCGGTACTCTGACTTACGAAGCAGTTCACCAAACAACCCAAGTCGGATTGGGGCAGTCCTTGTGT
ATTGGCATTGGAGGTGACCCTTTTAATGGGACTGATTTTATTGATTGCCTTGAAGTCTTCCTGAATGATC
CAGCCACAGAAGGCATCATACTGATTGGTGAAATTGGTGGTCACGCTGAAGAAAATGCTGCCGCGTTTCT
GAAGGAGCATAACTCAGGTCCAAAGGCCAAGCCTGTAGTGTCCTTCATTGCTGGTATAACTGCTCCTCCT
GGCAGAAGGATGGGCCATGCAGGGGCAATTATTGCTGGAGGAAAAGGTGGCGCTAAAGAGAAGATCTCTG
CTCTTCAGAGTGCTGGGGTGGTTGTCAGCATGTCCCCCGCACAGCTGGGAACTACCATTTATAAGGAGTT
TGAAAAGAGGAAGATGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

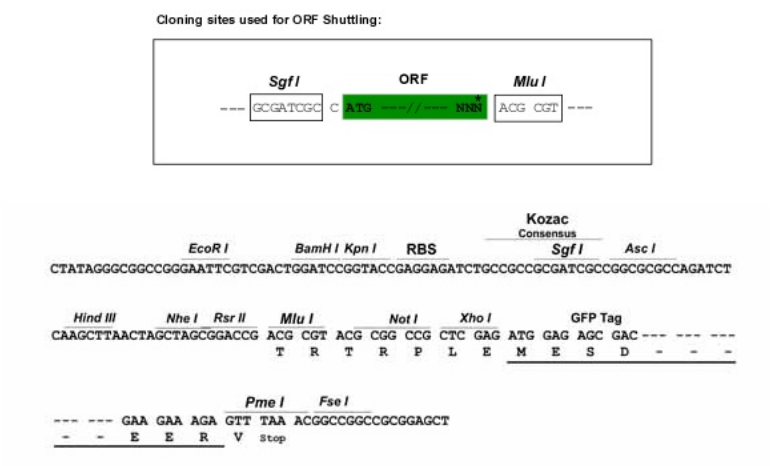
>MG204912 representing NM_019879
Red=Cloning site Green=Tags(s)

MVSSSSGLAAARLLSRTFLLQQNGIRHGSYTASRKHIYIDKNTKIICQGFTGKQGTFHSQQALEYGTKLV
GGTTPGKGGQKHLGLPVFNTVKEAKEKTGATASVIYVPPPFAAAAINEAIDAEIPLVVCITEGIPQQDMV
RVKHRLTRQGTTRLIGPNCPGVINPGECKIGIMPGHIHKKGRIGIVSRSGTLTYEAVHQTTQVGLGQSLC
IGIGGDPFNGTDFIDCLEVFLNDPATEGIILIGEIGGHAEENAAAFLKEHNSGPKAKPVVSFIAGITAPP
GRRMGHAGAIIAGGKGGAKEKISALQSAGVVVSMSPAQLGTTIYKEFEKRKML

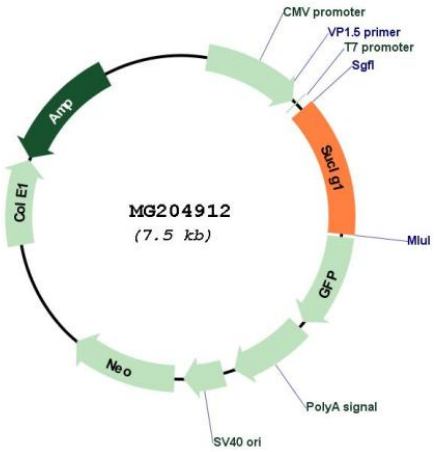
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019879

ORF Size: 999 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, NP_063932.1
RefSeq Size:	1212 bp
RefSeq ORF:	1041 bp
Locus ID:	56451
UniProt ID:	Q9WUM5
Cytogenetics:	6 C1
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]