

Product datasheet for **RG230086**

SUCLG2 (NM_001177599) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SUCLG2 (NM_001177599) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SUCLG2
Synonyms: G-SCS; GBETA; GTPSCS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG230086 representing NM_001177599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCCCCGTAGCAGCGCAGGCCGGGAAGCTTCTGCGAGCCCTAGCGCTGCGGCCCGCTTCTCTGG
 CGGCCGGTCCCAGGCAGTTCAATTAACCTCCAGAAGATGGCTGAACCTGCAGGAATACCAGAGCAAGAA
 ACTGATGTCTGACAACGGAGTGAGAGTTCAAAGATTCTTTGTAGCAGACTGCAATGAAGCTCTCGAG
 GCTGCTAAGAGACTAAATGCAAAAGAAATTGTTTTAAAAGCCAGATCTTAGCTGGAGGAAGAGGAAAAG
 GTGCTTCAATAGTGGTTTGAAGGAGGTGTTCAATTAACAAAAGACCCTAATGTTGTGGGACAGCTGGC
 TAAACAGATGATTGGGTACAATCTAGCGACAAAACAACTCCAAAAGAAGGTGTGAAAGTTAACAAGGTG
 ATGGTTGCTGAAGCCTTGATATTTCCAGAGAAACCTACCTGGCAATTCTGATGGACCGTCTTCAACCGGAGCT
 GCCCGTGTGGTGGCAGCCCCAGGGGGCGTGCAGATTGAAGAGGTGGCTGCTTCAAACCGGAGCT
 CATTTTTAAGGAGCAAAATGACATTTTTGAAGGAATAAAGGACAGCCAAGCTCAGCGGATGGCCGAAAAT
 CTAGGCTTCGTTGGCCTTTGAAAAGCCAGGCTGCAGATCAAATTACGAAGCTGTATAATCTCTTCTGA
 AAATTGATGCTACTCAGGTGAAGTGAATCCCTTTGGTGAACCCAGAAGGACAAGTTGTCTGTTTTGA
 TGCCAAGATAAACTTTGATGACAACGCAGAATCCGACAAAAGACATATTTGCTATGGACGACAAATCA
 GAGAATGAGCCCATTGAAAATGAAGCTGCCAAATATGATCTAAAATACATAGGACTAGATGGGAACATTG
 CCTGCTTTGTGAATGGTGTGGCTCGCCATGGCTACTTGTGATATCATTTTCTTAATGGTGGGAAGCC
 AGCCAACCTCTTGATCTTGAGGTGGTGTAAAGGAAGCTCAAGTATATCAAGCATTCAAATTTGCTCACA
 GCTGATCCTAAGGTTGAAGCCATCCTTGTCAATATATTTGGTGGTATCGTCAACTGTGCCATCATTGCCA
 ATGGGATACCAAAGCCTGCCGGAGCTAGAACTCAAGGTGCCCTGGTGGTCCGGCTTGAAGGTAATTT
 TATGGAATAAAAGGAAGTTATATGCACATAAAACAAGAAACAGGAAATCAAATGAGAATATAACTGGT
 ATCCAAGAGAACGTCGCCACCAAATCTGAGTAAGTGTCCATCAGCATTTTTTTATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG230086 representing NM_001177599
 Red=Cloning site Green=Tags(s)

MASPVAAQAGKLLRALALRPRFLAAGSQAVQLTSRRWLNLQEYQSKKLMSDNGVRVQRFFVADTANEALE
 AAKRLNAKEIVLKAQILAGGRGKGVFNGLKGGVHLTKDPNVVGLAKQMI GYNLATKQTPKEGVKNVKV
 MVAEALDISRETYLAILMDRSCNGPVLVGSPPGGVDIEEVAASNPelifKEQIDIFEGIKDSQAQRMAEN
 LGFVGPLKSQAADQITKLYNLFLKIDATQVEVNPFGETPEGVVCFDAKINFDNAEFRQKIDIFAMDDKS
 ENEPIENEAAKYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGK PANFLDLGGGVKEAQVYQAFKLLT
 ADPKVEAILVNIFFGGIVNCAIIANGITKACRELELVPLVVRLEGTFMEKKGSYMHKQETGNSNENITG
 IQENVAHQNL SKCAISIFLC

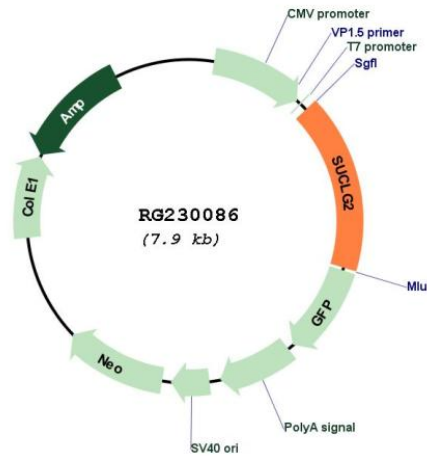
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177599

ORF Size:	1320 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_001177599.1 , NP_001171070.1
RefSeq Size:	1520 bp
RefSeq ORF:	1323 bp
Locus ID:	8801
UniProt ID:	Q96I99
Cytogenetics:	3p14.1
Protein Pathways:	Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism
Gene Summary:	This gene encodes a GTP-specific beta subunit of succinyl-CoA synthetase. Succinyl-CoA synthetase catalyzes the reversible reaction involving the formation of succinyl-CoA and succinate. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 5 and 12. [provided by RefSeq, Apr 2010]