

## Product datasheet for **MG206910**

### Suclg2 (BC080781) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Suclg2 (BC080781) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Suclg2
Synonyms:	AF171077; AW556404; D6Wsu120e; SCS-betaG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206910 representing BC080781 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCCCGGTGGCCATCGCGGCGCAGGCTGGGAAGCTTCTGCGAGAGCGAGCGCTGCGGCCGCTCC  
TGGCGGTCAGGTCCCAGGCCGCTCACTTAACCCCCGAAGATGGCTGAACCTGCAGGAGTACCAGAGCAA  
GAAGCTCATGTCAGAGCACGGAGTGAGAGTGCAGAGGTTCTTTGTTGCCAACACTGCTAAAGAGGCTCTG  
GAGGCAGCCAAGAGATTGAATGCAAAAGAAATTGTTTTAAAGCCAGATCTTAGCTGGAGGAAGAGGAA  
AAGGTGTCTTCAATAGCGGTTTGAAGGAGGTGTTCAATTAACAAAAGACCTAAAGTAGTGGGAGAGTT  
GGCTCAACAGATGATTGGTTATAATCTAGCAACGAAACAACTCCAAAAGAAGGTGTGAAAGTTAAACAAG  
GTGATGGTTGCTGAAGCCCTGGATATTTCTAGAGAAACATACTTGGCCATTCTAATGGACCGGTCCCAT  
ATGGCCCTGTGATAGTGGCAGTCCCTCAGGGGGCGTGTGATATTGAGGAAGTGGCAGCTCCAGTCCAGA  
ACTCATCTTAAAGGAGCAGATTGACATCTTTGAAGGATAAAGGATAGCCAGGCCAGCGCATGGCAGAA  
AATCCGGGCTTCTTGGGTCTCTGAAAACCAGGCTGCAGATCAGATTACAAAGCTGTACCATCTCTTCC  
TGAAGATTGATGCCACTCAGGTGGAAGTGAACCCCTTCGGTGAACCTCCAGAAGGACAAGTTGTCTGTTT  
TGATGCCAAGATAAACTTTGATGACAATGCTGAGTCCGACAAAAGGACATATTTGCTATGGACGACAAA  
TCCGGAATGAGCCCATGAAAATGAAGCTGCCAGATACGATCTCAAGTATATAGGACTGGACGGGAACA  
TTGCCTGCTTCGTGAATGGTGTCTGGGCTGGCCATGGCTACCTGCGACATCATCTTCTGAACGGAGGGAA  
GCCAGCGAACTTCTTGGACCTTGGAGGTGGTGTAAAGGAAGCCCAAGTCTATGAAGCATTCAAAGTCTC  
ACGTCTGACCCCAAGGTGGAAGCCATTCTCGTCAATATCTTTGGTGGGATCGTCAACTGTGCCATCATTG  
CCAACGGAATCACCAAAGCCTGCCGGGAGCTGGAGCTCAAGGTGCCACTGGTAGTCCGGCTTGAAGGAAC  
TAATGTGCAGGAGGCTCAGAATATCCTCAAGAGCAGCGGACTCCCATCACGTACAGTGTGGACCTGGAG  
GATGCAGCCAAGAAAGCTGTTGCCAGTGTGCCAAAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206910 representing BC080781  
 Red=Cloning site Green=Tags(s)

MASPVAIAAQAGKLLRERLRPLLAVRSQAGHLTPRRWLNLQEYQSKKLMSEHGVRVQRFVANTAKEAL  
 EAAKRLNAKEIVLKAQILAGGRGKGVFNGLKGGVHLTKDPKVVGELAQQMIGYNLATKQTPKEGVKNK  
 VMVAEALDISRETYLAAILMDRSHNGPVIIVGSPQGGVDIEEVAASSPELIFKEQIDIFEGIKDSQAQRMAE  
 NPGFLGSLKNQAADQITKLYHLFLKIDATQVEVNPFGETPEGQVVCDAKINFDDNAEFRQKIDIFAMDDK  
 SENEPiENAARYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGKPANFLDLGGGVKEAQVYEAFKLL  
 TSDPKVEAILVNIFFGGIVNCAIIANGITKACRELELKVPLVVRLEGNTVQEAQNILKSSGLPITSAVDLE  
 DAAKKAVASVAKK

TRTRPLE - GFP Tag - V

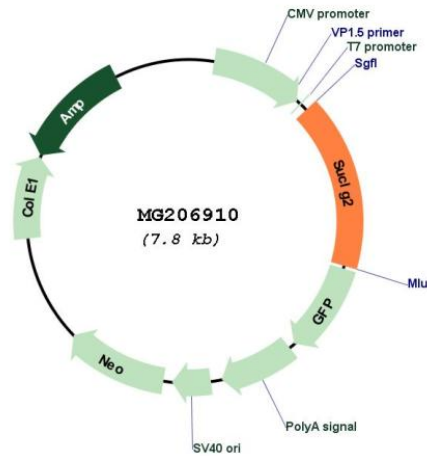
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

BC080781

<b>ORF Size:</b>	1301 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC080781</a> , <a href="#">AAH80781</a>
<b>RefSeq Size:</b>	2243 bp
<b>RefSeq ORF:</b>	1301 bp
<b>Locus ID:</b>	20917
<b>Cytogenetics:</b>	6 44.63 cM
<b>Gene Summary:</b>	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]