

Product datasheet for **MG204617**

Sgcb (NM_011890) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sgcb (NM_011890) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sgcb
Synonyms:	43kDa; AI747103; AI844814; beta-SG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204617 representing NM_011890 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCGGCGGCGGCGGCGGCAGCGACCGAGCAGCAAGGGTCCAACGGGCCAGTGAAGAAATCCA
TGCGGGAGAAGGCTGTGGAGCGGAGGAATGTTAACAAAGAGCACAAACAGCAATTTCAAAGCTGGATATAT
CCCCATCGATGAGGACCGGCTCCATAAGACTGGGCTGAGGGGGCGAAAGGGCACTTAGCCATCTGCGTG
ATCGTCTCTGTTTATCCTGGCCGTCACTAATCTACTCATTACACTTGCATCTGGGCGGTGATCCGCA
TTGGGCCAAATGGGTGTGATAGCATGGAGTTCACGAGAGCGGTCTGCTGAGGTTCAAGCAAGTGTCTGA
CATGGGCGTCATCCACCCGCTTTATAAGAGCACGGTGGGAGGACGGCGGAATGAAAACCTGGTCATCACT
GGCAACAACAGCCAATTGTCTTCCAGCAAGGGACGACCAAGCTGAGTGTGAAAAGAACAAGACCTCCA
TCACCAGCGACATCGGGATGCAGTTTTTTGACCCAAGGACACACAATATCCTGTTGAGCAGCGACTATGA
GACGCACGAGTTTCATCTGCCAAGTGGGGTAAAAAGTTTGAACGTTTCAGAAAGCATCGACTGAAAGGATT
ACCAGCAATGCTACCAGTGACTTAAACATCAAAGTCGATGGGCGTGCAATTGTGCGAGGCAACGAAGGCG
TCTTCATCATGGGCAAAACCATGAATTCACATGGGAGGAGATGTGGAGTTAAAAGCTGAAAACAGCAT
CATCCTCAACGGCACGGTGATGGTCAGCCCTACGCGCTGCCAGTTCCTCCAGCGGGGACCAGTCAGGG
AGTGGTGACTGGGTGCGCTACAAGCTCTGCATGTGTGCAGATGGCACACTCTTCAAAGTACAAGTAAACAG
GTCACAACATGGGCTGCCAGGTCTCAGACAACCCTTGTGGGAACACTCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204617 representing NM_011890
 Red=Cloning site Green=Tags(s)

MAAAAAAAAAATEQQSGNGPVKKSMSREKAVERRNVNKEHNSNFKAGYIPIDEDRLHKTGLRGRKGNLAICV
 IVLLFILAVINLLITLVIWAVIRIGPNGCDSMEFHESGLLRFKQVSDMGVHPL YKSTVGGRRNENLVIT
 GNNQPIVVFQQGTTKLSVEKNKTSITSDIGMQFFDPRTHNILFSTDYETHEFHLP SGVKSLNVQKASTERI
 TSNATSDLNIKVDGRAIVRGNEGVFIMGKTIEFHMGGDVELKAENSIILNGTVMVSPTRLPSSSSGDQSG
 SGDWVRYKLCMCADGTLFKVQVTGHNMGCVSDNPGNTH

TRTRPLE - GFP Tag - V

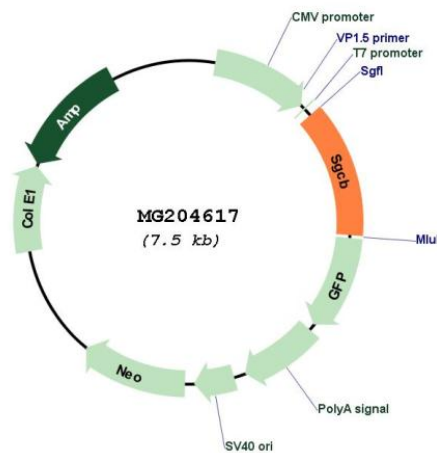
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011890

ORF Size: 960 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_011890.5](#)

RefSeq Size: 3727 bp

RefSeq ORF: 963 bp

Locus ID: 24051

UniProt ID: [P82349](#)

Cytogenetics: 5 C3.3

Gene Summary: Component of the sarcoglycan complex, a subcomplex of the dystrophin-glycoprotein complex which forms a link between the F-actin cytoskeleton and the extracellular matrix. [UniProtKB/Swiss-Prot Function]