

## Product datasheet for **MG224511**

### **Sgca (NM\_009161) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sgca (NM_009161) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sgca
Synonyms:	50DA; 50DAG; A; ad; Asg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224511 representing NM_009161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCAGCAGTAACCTGGATACCTCTCCTGGCAGGTCTCCTGGCAGGACTGAGGGACACCAAGGCC  
AGCAGACAACCTTACACCTACTTGTGGGTGCTGTGTTTGTGCATCCTTTGGAACATGCCACCTTCTGCG  
CCTTCCAGAACACGTTGCGGTGCCACCCACTGTCCGACTCACCTACCACGCTCACCTCCAGGGACATCCA  
GACCTGCCAGGTGGCTGCACTACACACAGCGCAGTCCCTATAACCCTGGCTTCTCTACGGCTCCCCCA  
CTCCAGAAGATCGTGGGTACCAAGTCATCGAGGTCACAGCCTACAATCGAGACAGTTTTGACACCACTAG  
ACAGAGGCTGCTGCTGCTGATTGGGGACCCGAAGGTCCCGGTTGCCATACCAAGCTGAGTTCCTGGTG  
CGCAGCCATGATGTGGAGGAGGTGCTGCCACCCACCTGCCAACCGCTTCTCACCGCCTTGGGGGGAC  
TGTGGGAGCCAGGAGAGCTTCAGCTGCTCAACATCACTTCCGCTTGGACCGGGGAGGCCGAGTCCCTCT  
TCCTATTGAGGGACGGAAGGAAGGGGTATACATTAAGGTAGGCTCTGCCACACCTTCTCCACCTGCCTG  
AAGATGGTGGCGTCGCCGACAGCTATGCCCGTTGTGCCAGGGACAGCCTCCACTACTGCTGCTACG  
ACACTTTGGCACCCCACTTCCGCTTGACTGGTGAATGTGTCTCTGGTAGACAAGTCAGTACCCGAGCC  
CCTGGATGAGGTACCTACTCCAGGCGATGGGATCTTGGAGCACGACCCGTTCTTCTGCCACCCACTGAA  
GCCACAGACCGAGACTTCTGACAGATGCCTTGGTGACCCTTGGTGCCTTTGTTGGTGGCTCTGCTGC  
TTACTGTTGCTGGCTTACATCATGTGCTTTCGGCGTGAAGGACGGCTGAAGAGAGACATGGCCACCTC  
TGACATCCAGATGTTTACCACCTGTTCCATCCATGGGAATACAGAAGAGCTTCGGCAGATGGCAGCCAGC  
CGAGAGGTGCCCGGCTCTTCCACCTTGCCCATGTTTAATGTTGTCGACAGGAGAGCGGTTACCTCCCC  
GAGTAGACAGCGCACAGATGCCTCTTATCCTGGACCAGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224511 representing NM\_009161  
Red=Cloning site Green=Tags(s)

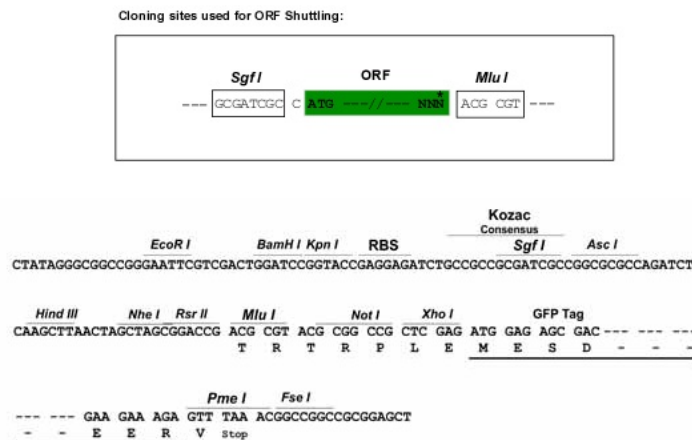
MAAAVTWIPLLAGLLAGLRDTKAQQTTLHLLVGRVVFVHPLEHATFLRLPEHVAVPPTVRLTYHAHLQGH  
 DLPRWLHYTQRSPYNGFLYGSPTPEDRGYQVIEVTAYNRDSFDTRQRLLLLIGDPEGPRLPYQAEFLV  
 RSHDVEEVLPTTPANRFLTALGGLWEPGELQLLNITSALDRGGRVPLPIEGRKEGVYIKVGSATPFSTCL  
 KMWASPDSYARCAQGQPLLSCYDTLAPHFRVDWCNVSLVDKSVPEPLDEVPTPGDGILEHDPFFCPTE  
 ATDRDFLTDALVTLVPLLVALLLTLLLAYIMCFRREGRLKRDMATSDIQMFHHCSTHGNTEELRQMAAS  
 REVPRPLSTLPMFNVRTGERLPPRVDSAQMPILLDQH

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3313\\_b11.zip](https://cdn.origene.com/chromatograms/ja3313_b11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009161

**ORF Size:** 1161 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\\_009161.4](#), [NP\\_033187.1](#)

**RefSeq Size:** 1738 bp

**RefSeq ORF:** 1164 bp

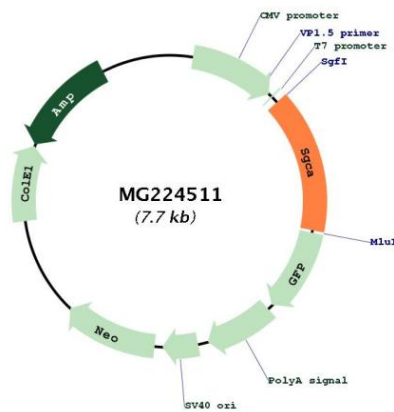
**Locus ID:** 20391

**UniProt ID:** [P82350](#)

**Cytogenetics:** 11 D

**Gene Summary:** This gene encodes a member of the sarcoglycan alpha/epsilon family of transmembrane proteins. The encoded protein is part of the dystrophin-glycoprotein complex which links the extracellular matrix to the cytoskeleton in muscle fibers. Disruption of this gene results in progressive muscular dystrophy and is associated with the development of embryonal rhabdomyosarcoma. [provided by RefSeq, Dec 2012]

### Product images:



Circular map for MG224511