

## Product datasheet for MR223392

### Sgca (NM\_001136080) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sgca (NM\_001136080) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Sgca  
**Synonyms:** 50DAG; 59kDa; adhalin; Asg  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223392 representing NM\_001136080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGCAGCAGTAACCTGGATACCTCTCCTGGCAGGTCTCCTGGCAGGACTGAGGGACACCAAGGCC  
 AGCAGACAACCTTTACACCTACTTGTGGGTGCTGTGTTTGTGCATCCTTTGGAACATGCCACCTTCTGCG  
 CCTTCCAGAACACGTTGCGGTGCCACCCACTGTCCGACTCACCTACCACGCTCACCTCCAGGGACATCCA  
 GACCTGCCAGGTGGCTGCACTACACACAGCGCAGTCCCTATAACCCTGGCTTCTCTACGGCTCCCCCA  
 CTCCAGAAGATCGTGGGTACCAAGTCATCGAGGTCACAGCCTACAATCGAGACAGTTTTGACACCACTAG  
 ACAGAGGCTGCTGCTGCTGATTGGGGACCCGAAGGTCCCGGTTGCCATACCAAGCTGAGTTCTGGTG  
 CGCAGCCATGATGTGGAGGAGGTGCTGCCACCCACCTGCCAACCCTTCTCACCGCCTTGGGGGGAC  
 TGTGGGAGCCAGGAGAGCTTCAGCTGCTCAACATCACTTCCGCTTGGACCGGGGAGGCCGAGTCCCTCT  
 TCCTATTGAGGGACGGAAGGAAGGGGTATACATTAAGGTAGGCTCTGCCACACCTTCTCCACCTGCCTG  
 AAGATGGTGGCGTCGCCGACAGCTATGCCGTTGTGCCAGGGACAGCCTCCACTACTGCTGCTGCTACG  
 ACACTTTGGCACCCCACTTCCGCTTACTGGTGAATGTGTCTCTGGTAGACAAGTCAGTACCCGAGCC  
 CCTGGATGAGGTACCTACTCCAGGCGATGGGATCTTGGAGCACGACCCGTTCTTCTGCCACCCACTGAA  
 GCCACAGACCGAGACTTCTGACAGATGCCTTGGTGACCCTCTTGGTGCCTTTGTTGGTGGCTGCTGCTG  
 TTACTCTGTTGCTGGCTTACATCATGTGCTTTCGGCGTGAAGGACGGCTGAAGAGAGACATGGCCACCTC  
 TGACATCCAGATGTTTACCACCTGTTCCATCCATGGGAATACAGAAGAGCTTCGGCAGATGGCAGCCAGC  
 CGAGAGGTGCCCGGCTCTTCCACCTTGCCCATGTTTAATGTTTCGTACAGGAGAGCGTTACCTCCCC  
 GAGTAGACAGCGCACAGATGCCTCTTATCCTGGACCAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223392 representing NM\_001136080  
Red=Cloning site Green=Tags(s)

MAAAVTWIPLLAGLLAGLRDTKAQQTTLHLLVGRVVFVHPLEHATFLRLPEHVAVPPTVRLTYHAHLQGHPLDPRWLHYTQRSPYNPGFLYGSPTPEDRGYQVIEVTAYNRDSFDTTQRLLLLIGDPEGPRLPYQAEFLV RSHDVEEVLPTTPANRFLTALGGLWEPGELQLLNITSALDRGGRVPLPIEGRKEGVYIKVGSATPFSTCL KMVASPDSYARCAQGGPPLLSCYDTLAPHFRVDWCNVSLVDKSVPEPLDEVPTPGDGILEHDPFFCPTE ATDRDFLTDALVTLLVPLLVALLLTLLLAYIMCFRREGRLKRDMATSDIQMFHHCSEIHGNTIELRQMAAS REVPRPLSTLPMFNVRTGERLPPRVDSAMPLILDQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001136080

**ORF Size:** 1161 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](mailto: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\_001136080.1, NP\_001129552.1

**RefSeq Size:** 1738 bp

**RefSeq ORF:** 1164 bp

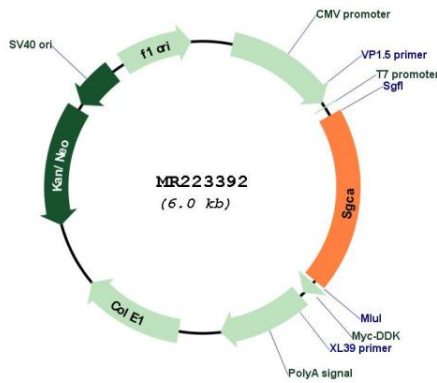
**Locus ID:** 20391

**Cytogenetics:** 11 D

**MW:** 43.3 kDa

**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 MR223392