

Product datasheet for **RG206577**

alpha Sarcoglycan (SGCA) (NM_000023) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | alpha Sarcoglycan (SGCA) (NM_000023) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | alpha Sarcoglycan |
| Synonyms: | 50DAG; adhalin; ADL; DAG2; DMDA2; LGMD2D; LGMDR3; SCARMD1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG206577 representing NM_000023 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGACACTCTTCTGGACTCCTCTCCTCGTGGTTCTCCTGGCAGGGCTGGGGACACCGAGGCC
AGCAGACCACGCTACACCCACTTGTGGGCGTGTCTTTGTGCACACCTTGGACCATGAGACGTTTCTGAG
CCTTCTGAGCATGTCGCTGTCCACCCGCTGTCCACATCACCTACCACGCCACCTCCAGGGACACCCA
GACCTGCCCGGTGGCTCCGCTACACCCAGCGCAGCCCCACCACCTGGCTTCTCTACGGCTCTGCCA
CCCCAGAAGATCGTGGGCTCCAGGTCATTGAGGTCACAGCCTACAATCGGGACAGCTTTGATACCACTCG
GCAGAGGCTGGTGTGGAGATTGGGGACCCAGAAGGCCCCCTGCTGCCATACCAAGCCGAGTTCCTGGTG
CGCAGCCACGATGCGGAGGAGGTGCTGCCTCAACACCTGCCAGCCGCTTCTCTCAGCCTTGGGGGAC
TCTGGGAGCCCGAGAGCTTTCAGCTGCTCAACGTCACCTCTGCCTTGGACCGTGGGGGCCGTGCCCCCT
TCCATTGAGGGCCGAAAAGAAGGGGTATACATTAAGGTGGGTTCTGCCTCACCTTTTTCTACTTGCCTG
AAGATGGTGGCATCCCCGATAGCCACGCCCGCTGTGCCAGGGCCAGCCTCCACTTCTGTCTTGTACG
ACACCTTGGCACCCCACTTCCGCGTTGACTGGTGAATGTGACCTGGTGATAAGTCAGTGCCGGAGCC
TGCAGATGAGGTGCCACCCAGGTGATGGGATCCTGGAGCATGACCCGTTCTTCTGCCACCCACTGAG
GCCCCAGACCGTGACTTCTTGGTGGATGCTCTGGTCACCCCTCTGGTGGCCCTGCTGGTGGCCCTGCTTC
TCACTTGTCTGGCCTATGTGATGTGCTGCCGGCGGAGGGAAGGCTGAAGAGAGACCTGGCTACCTC
CGACATCCAGATGGTCCACCACTGCACCATCCACGGGAACACAGAGGAGCTGCGGAGATGGCGGCCAGC
CGCGAGGTGCCCGGCCACTCTCCACCCTGCCATGTTCAATGTGCACACAGGTGAGCGGCTGCCTCCCC
GCGTGGACAGCGCCAGGTGCCCTCATTCTGGACCAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206577 representing NM_000023
 Red=Cloning site Green=Tags(s)

MAETLFWTPLLVLVLLAGLDTEAQQTTLHPLVGRVHVHTLDHETFLSLPEHVAVPPAVHITYHAHLQGH
 DLPRWLRYTQRSPHHPGFLYGSATPEDRGLQVIEVTAYNRDSFDTTRQLVLEIGDPEGPLLPYQAEFLV
 RSHDAEEVLPSTPASRFLSALGGLWEPGELQLLNVTLSALDRGGRVPLPIEGRKEGVYIKVGSASPFSTCL
 KMVASPDSHARCAQGQPPLLSCYDTLAPHFRVDWCNVTLVDKSVPEPADEVPTPGDGILEHDPFFCPPT
 APDRDFLVDALVTLLVPLLVALLLTLLLAYVMCCRREGRLKRDLATSDIQMVHHCITIHGNTIELRQMAAS
 REVPRPLSTLPMFNVHTGERLPPRVDSAQVPLILDQH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000023

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_000023.4](#)

RefSeq Size: 1404 bp

RefSeq ORF: 1164 bp

Locus ID: 6442

UniProt ID: [Q16586](#)

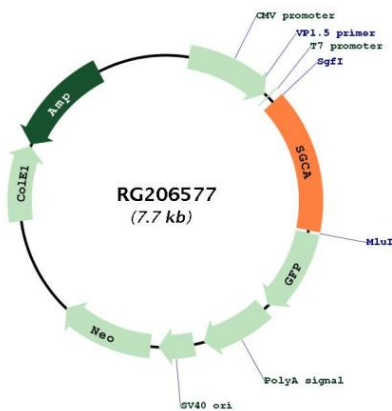
Cytogenetics: 17q21.33

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis

Gene Summary: This gene encodes a component of the dystrophin-glycoprotein complex (DGC), which is critical to the stability of muscle fiber membranes and to the linking of the actin cytoskeleton to the extracellular matrix. Its expression is thought to be restricted to striated muscle. Mutations in this gene result in type 2D autosomal recessive limb-girdle muscular dystrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

Product images:



Circular map for RG206577