

## Product datasheet for **RG227929**

### alpha Sarcoglycan (SGCA) (NM\_001135697) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | alpha Sarcoglycan (SGCA) (NM_001135697) Human Tagged ORF Clone                 |
| Tag:                      | TurboGFP   |
| Symbol:                   | SGCA   |
| 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:  | >RG227929 representing NM_001135697<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAGACACTCTTCTGGACTCCTCTCCTCGTGGTTCTCCTGGCAGGGCTGGGGACACCGAGGCC  
AGCAGACCACGCTACACCACTTGTGGCCGTGTCTTTGTGCACACCTTGGACCATGAGACGTTTCTGAG  
CCTTCTGAGCATGTCGCTGTCCACCCGCTGTCCACATCACCTACCACGCCACCTCCAGGGACACCCA  
GACCTGCCCGGTGGCTCCGCTACACCCAGCGCAGCCCCACCACCTGGCTTCTCTACGGCTCTGCCA  
CCCCAGAAGATCGTGGGCTCCAGGTCATTGAGGTCACAGCCTACAATCGGGACAGCTTTGATACCACTCG  
GCAGAGGCTGGTGTGGAGATTGGGGACCCAGAAGGCCCCCTGCTGCCATACCAAGCCGAGTTCTGGTG  
CGCAGCCACGATGCGGAGGAGGTGCTGCCTCAACACCTGCCAGCCGCTTCTCTCAGCCTTGGGGGAC  
TCTGGGAGCCCGAGAGCTTCAGCTGCTCAACGTACCTCTGCCTTGGACCGTGGGGGCCGTGTCCCCCT  
TCCCATTGAGGGCCGAAAAGAAGGGCTGAAGAGAGACCTGGCTACCTCCGACATCCAGATGGTCCACCAC  
TGCACCATCCACGGGAACACAGAGGAGCTGCGGCAGATGGCGGCCAGCCGCGAGGTGCCCGGCCACTCT  
CCACCTGCCATGTTCAATGTGCACACAGGTGAGCGGCTGCCTCCCCCGTGGACAGCGCCAGGTGCC  
CCTCATTCTGGACCAGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227929 representing NM\_001135697  
 Red=Cloning site Green=Tags(s)

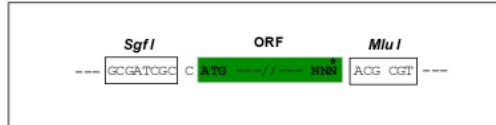
MAETLFWTPLLVLVLLAGLDTEAQQTTLHPLVGRVVFVHTLDHETFLSLPEHVAVPPAVHITYHAHLQGHF  
 DLPRLRYTQRSPHHPGFLYGSATPEDRGLQVIEVTAYNRDSFDTTTRQLVLEIGDPEGPLLPYQAEFLV  
 RSHDAEEVLPSTPASRFLSALGGLWEPGELQLLNVTLSALDRGGRVPLPIEGRKEGLKRDLATSDIQMVHH  
 CTIHGNTTEELRQMAASREVPRLSTLPMFNVHTGERLPPRVDSAQVPLILDQH

TRTRPLE - GFP Tag - V

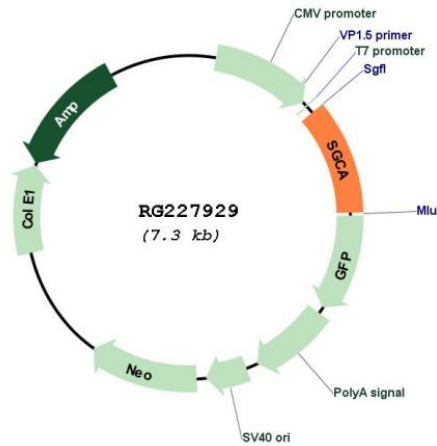
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001135697

ORF Size: 789 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="#">NM_001135697.3</a>  |
| <b>RefSeq Size:</b>           | 1069 bp   |
| <b>RefSeq ORF:</b>            | 792 bp  |
| <b>Locus ID:</b>              | 6442  |
| <b>UniProt ID:</b>            | <a href="#">Q16586</a>  |
| <b>Cytogenetics:</b>          | 17q21.33  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Protein Pathways:</b>      | Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis  |
| <b>Gene Summary:</b>          | 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]             |