

Product datasheet for **SC300030**

gamma Sarcoglycan (SGCG) (NM_000231) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Sarcoglycan (SGCG) (NM_000231) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGCG
Synonyms:	35DAG; A4; DAGA4; DMDA; DMDA1; gamma-SG; LGMD2C; LGMDR5; MAM; SCARMD2; SCG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300030 representing NM_000231. Blue=Insert sequence Red=Cloning site Green=Tag(s)

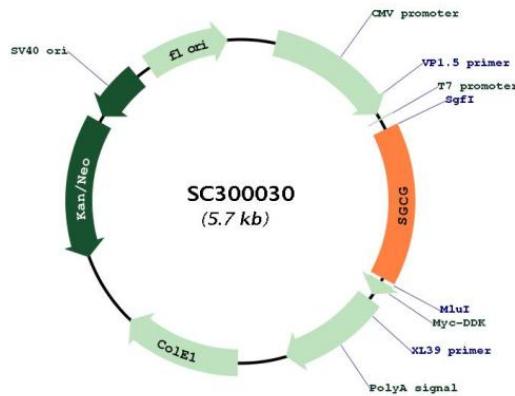
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GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGC GTGAGCAGTACACTACAGCCACAGAAGGCATCTGCATAGAGAGGCCAGAGAATCAGTATGTC
TACAAAATTGGCATTATGGCTGGAGAAAGCGCTGTCTCTACTTGTGTTCTTCTTTACTCATCATC
CTCGTTGTGAATTTAGCTCTTACAATTTGGATTCTTAAAGTGATGTGGTTTTCTCCAGCAGGAATGGGC
CACTTGTGTGTAACAAAAGATGGACTGCGCTTGAAGGGGAATCAGAATTTTATCCCATTTGTATGCC
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AGAGCCGACCCGTTTCAAGACCTTAGATTAAGAATCCCCACTCGGAGTCTAAGCATGGATGCCCAAGG
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GCCGGTGTGAGCACCACGTGCCAGGAGCACAGCCACATCTGCCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_000231

Insert Size: 876 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000231.2](#)

RefSeq Size: 1661 bp

RefSeq ORF: 876 bp

Locus ID:	6445
UniProt ID:	Q13326
Cytogenetics:	13q12.12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis
MW:	32.4 kDa
Gene Summary:	<p>This gene encodes gamma-sarcoglycan, one of several sarcolemmal transmembrane glycoproteins that interact with dystrophin. The dystrophin-glycoprotein complex (DGC) spans the sarcolemma and is comprised of dystrophin, syntrophin, alpha- and beta-dystroglycans and sarcoglycans. The DGC provides a structural link between the subsarcolemmal cytoskeleton and the extracellular matrix of muscle cells. Defects in the encoded protein can lead to early onset autosomal recessive muscular dystrophy, in particular limb-girdle muscular dystrophy, type 2C (LGMD2C). [provided by RefSeq, Oct 2008]</p>