*m*SGCG VersaClone cDNA

Catalog Number: RDC3745

Specifications:

Gene:	*m*Sgcg
Accession:	NP_036022.1
Insert size:	889bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

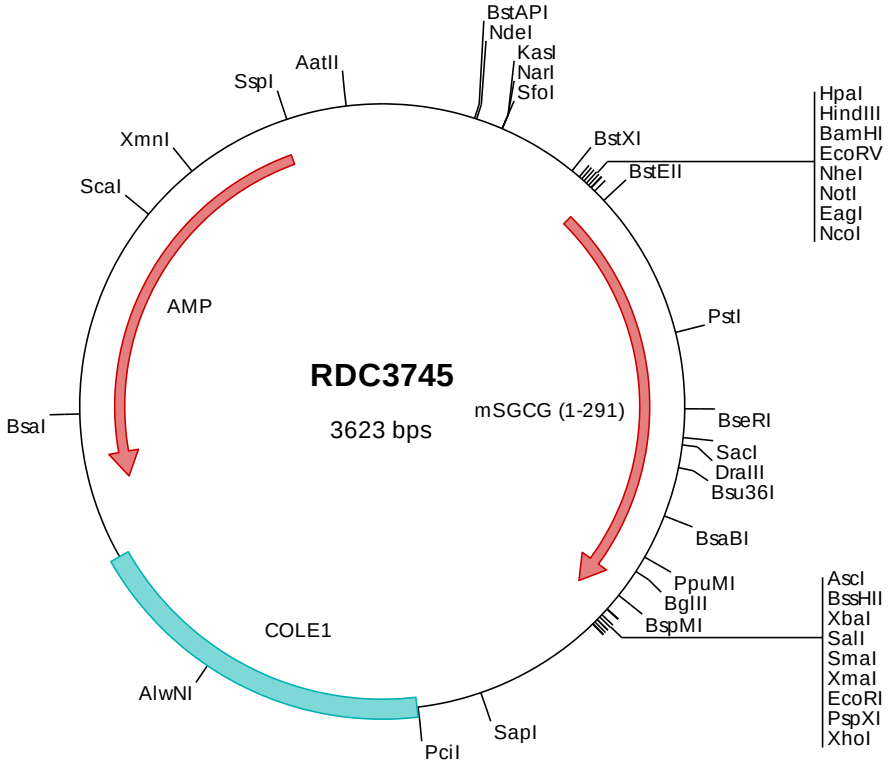
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*SGCG cDNA Plasmid

Sgcg sarcoglycan, gamma (dystrophin-associated glycoprotein) [*Mus musculus* (house mouse)]

Also known as: 35kDa; gamma-SG; 5430420E18Rik

Summary:
SGCG is a 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 SGCG can lead to early onset autosomal recessive muscular dystrophy, in particular limb-girdle muscular dystrophy, type 2C (LGMD2C).



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NOT FOR USE IN HUMANS

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R&D SYSTEMS

> RDC3745 Plasmid DNA Sequence

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 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggttcgag aacagtacac cacggtcacc gagggcactc acatagagag
 501  gcccgagaac cagcacatct acaagattgg catttacgga tggaggaagc gctgcctata cctattcgtt cttctcctgc tcgccatcct cgttgtgaat
 601  ctcgctctca ctatctggat tctgaaagtg atgtggtttt ctccaatagg aatgggtcac ttgcatgtta cagcagatgg acttcgcctg gaaggagagt
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2701  gcgagaccca cgctcaccgg ctccagattt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggtcctg caactttatc cgcctccatc
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2901  cgtcgtttgg tatggcttca ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa gcggttagct ccttcggtcc
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> RDC3745 Translated Insert Sequence

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 201  lsmdaprgvh vkanagklea lsqmdiilqs segvlvldae tvgltklkqg tqgpagssng fyeicacpdg klylsmagev ttceehshvc l
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