

Product datasheet for **RG237958**

SGCE (NM_001301139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGCE (NM_001301139) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGCE
Synonyms:	DYT11; epsilon-SG; ESG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237958 representing NM_001301139. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCAATTGCCCGGTGGTGGGAGCTGGGAGACCCCTGTGCTTGGACGGGACAGGGTCGGGGGACACGC
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AATACAAATTTAATGGGTACCCAGACCGACTGGATGGCTTCGATATATCCAAAGGACACCATATAGT
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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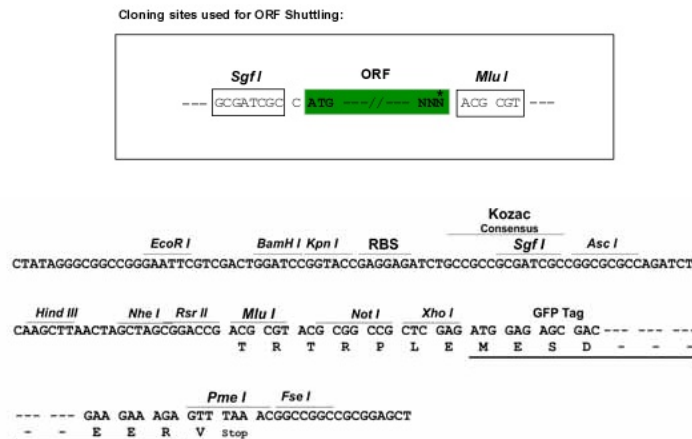
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237958
 Blue=ORF Red=Cloning site Green=Tag(s)

MQLPRWELGDPCAWTGQGRGTRRMSPATTGTFLLTGEISNDPITFNTLMGYDPDRPGWLRVIQRTSYS
 DGVLVYGSPTAENVGKPTIIIEITAYNRRTFETARHNLIIINMSAEDFPLPYQAEFFIKNMNVEMLASEV
 LGDFLGAVKNVWQPERLNAINITALDRGGRVPLPINDLKEGVYVMVGADVPFSSCLREVENPQNQLRC
 SQEMEPVITCDKKFRTQFYIDWCKISLVDKTKQVSTYQEVIRGEGILPDGGEYKPPSDSLKSRDYDTDF
 LITLAVPSAVALVFLILAYIMCCRREGVEKRNMQTPDIQLVHHSIAIQSTKELRDMSKNREIAWPLST
 LPVFHPVTGEIIPPLHTDNYDSTNMPLMQTQQNLPHTQIPQQQTGKWPY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301139

ORF Size: 1188 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).

RefSeq: [NM_001301139.2](#)

RefSeq Size: 1586 bp

RefSeq ORF: 1191 bp
 Locus ID: 8910
 UniProt ID: [O43556](#)

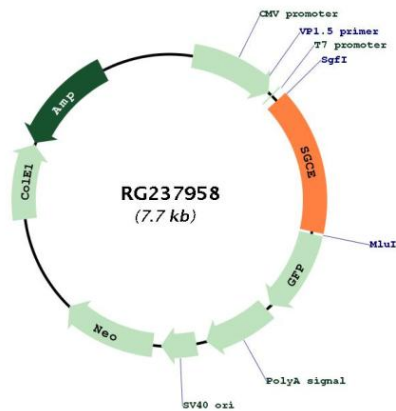
Cytogenetics: 7q21.3

Protein Families: Transmembrane

MW: 45.5 kDa

Gene Summary: This gene encodes the epsilon member of the sarcoglycan family. Sarcoglycans are transmembrane proteins that are components of the dystrophin-glycoprotein complex, which link the actin cytoskeleton to the extracellular matrix. Unlike other family members which are predominantly expressed in striated muscle, the epsilon sarcoglycan is more broadly expressed. Mutations in this gene are associated with myoclonus-dystonia syndrome. This gene is imprinted, with preferential expression from the paternal allele. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A pseudogene associated with this gene is located on chromosome 2. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RG237958