

Product datasheet for **RC205363**

SGCE (NM_003919) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGCE (NM_003919) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SGCE
Synonyms:	DYT11; epsilon-SG; ESG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC205363 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAATTGCCCGGTGGTGGGAGCTGGGAGACCCTGTGCTTGGACGGGACAGGGTCGGGGACACGCA
GGATGAGCCCCGCGACCACTGGCACATTCTTGCTGACAGTGACAGTATTTCTCCAAGGTACACTCCGA
TCGGAGTGTATACCCATCAGCAGGTGCTCTTTGTTTCATGTTTTGAAAAGAGAATATTTAAGGGGAA
TTTCCACCTTACCCAAAACCTGGCGAGATTAGTAATGATCCATAACATTTAATACAAATTAATGGGTT
ACCCAGACCGACCTGGATGGCTTCGATATATCCAAAGGACACCATATAGTGATGGAGTCCTATATGGGTC
CCCAACAGCTGAAAATGTGGGAAGCCAACAATCATTGAGATAACTGCCTACAACAGGCGCACCTTTGAG
ACTGCAAGGCATAATTTGATAATTAATAATGTCTGCAGAAGACTTCCCCTGCCATATCAAGCAGAAT
TCTTCATTAAGAATATGAATGTAGAAGAAATGTTGCCAGTGAGGTTCTGGAGACTTTCTGGCGCAGT
GAAAAATGTGTGGCAGCCAGAGCGCCTGAACGCCATAAACATCACATCGGCCCTAGACAGGGGTGGCAGG
GTGCCACTTCCCATAATGACCTGAAGGAGGGCGTTTATGTCATGGTTGGTGCAGATGTCCCCTTTCTT
CTTGTTTACGAGAAGTTGAAAATCCACAGAATCAATTGAGATGTAGTCAAGAAATGGAGCCTGTAATAAC
ATGTGATAAAAAATTTCTGTAACAATTTACATTGACTGGTGCAAAAATTCATTGGTTGATAAAACAAAG
CAAGTGTCCACCTATCAGGAAGTGATTCGTGGAGAGGGGATTTACCTGATGGTGGAGAATACAAACCC
CTTCTGATTCTTTGAAAAGCAGAGACTATTACACGGATTTCTAATTACACTGGCTGTGCCCTCGGCAGT
GGCACTGGTCTTTTTCTAATACTTGCTTATATCATGTGCTGCCGACGGGAAGGCGTGGAAAAGAGAAAC
ATGCAAAACACCAGACATCCAACCTGGTCCATCACAGTGCTATTAGAAAATCTACCAAGGAGCTTCGAGACA
TGTCGAAGAATAGAGAGATAGCATGGCCCTGTCAACGCTTCTGTGTTCCACCCTGTGACTGGGAAAT
CATACATCCTTTACACACAGACAACATGATAGCACAAAACATGCCATTGATGCAAAACGCAGCAGAACTTG
CCACATCAGACTCAGATTCACCAACAGCAGACTACAGGTAATGGTATCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205363 protein sequence
Red=Cloning site Green=Tags(s)

MQLPRWELGDPCAWTGQGRGTRRMSPATTGTFLLTVYSIFSKVHSDRSVYPSAGVLFVHVLEREYFKGE
FPPYPKPGEISNDPITFNTNLMGYPDRPGWLRYIQRTPYSDGVL YGSPTAENVGKPTIIEITAYNRRTFE
TARHNLIIINIMSAEDFPLPYQAEFFIKNMNVEEMLASEVLGDFLGAVKNVWQPERLNAINITSALDRGGR
VPLPINDLKEGVYVMVGADVPPFSSCLREVENPQNQLRCSQEMEPVITCDKKFRTQFYIDWCKISLVDKTK
QVSTYQEVIRGEGILPDGGEYKPPSDSLKSRDYITDFLITLAVPSAVALVFLILAYIMCCRREGVEKRN
MQTPDIQLVHHSIAIQSTKELRDMKNREIAWPLSTLPVFPVTGEIIHPLHTDNYDSTNMPLMQTQQNL
PHQTQIPQQTTGKWYP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6027_f05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003919

ORF Size: 1311 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_003919.3](#)

RefSeq Size: 1709 bp

RefSeq ORF: 1314 bp

Locus ID: 8910

UniProt ID: [O43556](#)

Cytogenetics: 7q21.3

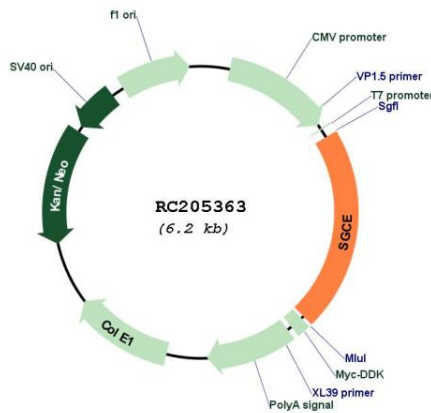
Domains: CADG

Protein Families: Transmembrane

MW: 49.9 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 RC205363