

Product datasheet for **RC237958**

SGCE (NM_001301139) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SGCE (NM_001301139) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SGCE
Synonyms: DYT11; epsilon-SG; ESG
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237958 representing NM_001301139
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAATTGCCCGGTGGTGGGAGCTGGGAGACCCTGTGCTTGGACGGGACAGGTCGGGGACACGCA
GGATGAGCCCGCAGCCACTGGCACATTCTTGCTGACAGGCGAGATTAGTAATGATCCCATAACATTTAA
TACAAATTTAATGGGTTACCCAGACCGACTGGATGGCTTCGATATATCCAAAGGACACCATATAGTGAT
GGAGTCTATATGGTCCCAACAGCTGAAAATGTGGGAAGCCAACAATCATTGAGATAACTGCCTACA
ACAGGCGCACCTTTGAGACTGCAAGGCATAATTTGATAATTAATAATGTCTGCAGAAGACTTCCCGTT
GCCATATCAAGCAGAATTCTTCATTAAGAATATGAATGTAGAAGAAATGTTGGCCAGTGAGGTTCTTGG
GACTTTCTTGGCGCAGTAAAAATGTGTGGCAGCCAGAGCGCCTGAACGCCATAAACATCACATCGGCC
TAGACAGGGTGGCAGGGTGCCACTTCCCATAATGACCTGAAGGAGGGCGTTTATGTCATGGTTGGTGC
AGATGTCCCGTTTTCTTCTTGTACGAGAAGTTGAAAATCCACAGAATCAATTGAGATGTAGTCAAGAA
ATGGAGCCTGTAATAACATGTGATAAAAAATTCGTACTCAATTTACATTGACTGGTGCAAAATTTTCA
TGTTGATAAAACAAGCAAGTGTCCACCTATCAGGAAGTGATTGCTGGAGAGGGATTTTACCTGATGG
TGGAGAATACAAACCCCTTCTGATTCTTTGAAAAGCAGAGACTATTACCGGATTTCTAATTACACTG
GCTGTGCCCTCGGCAGTGGCACTGGTCCTTTTTCTAATACTTGCTTATATCATGTGCTGCCGACGGGAAG
GCGTGGAAAAGAGAAACATGCAACACCAGACATCCAACCTGGTCCATCACAGTGTCTATTCAGAAATCTAC
CAAGGAGCTTCGAGACATGTCCAAGAATAGAGAGATAGCATGGCCCTGTCAACGCTTCTGTGTCCAC
CCTGTGACTGGGAAATCATACCTCCTTACACACAGACAATATGATAGCACAAACATGCCATTGATGC
AAACGCAGCAGAATTGCCACATCAGACTCAGATTCACCAACAGCAGACTACAGGTAATGGTATCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237958 representing NM_001301139
Red=Cloning site Green=Tags(s)

MQLPRWELGDPCAWTGQGRGTRRMSPATTGTFLLTGEISNDPITFNTNLMGYPDRPGWLRVIQRTPYSD
 GVLVYGSPTAENVGKPTIIIEITAYNRRTFETARHNLIIINIMSAEDFPLPYQAEFFIKNMNVEMLASEVLG
 DFLGAVKNVWQPERLNAINITALSALDRGGRVPLINDLKEGVYVMVGADVPFSSCLREVENPQNQLRCSQE
 MEPVITCDKKFRTQFYIDWCKISLVDKTKQVSTYQEVIRGEGILPDGGEYKPPSDSLKSRDYITDFLITL
 AVPSAVALVFLILAYIMCCRREGVEKRNMQTPDIIQLVHHSAIQKSTKELRDMSKNREIAWPLSTLPVVFH
 PVTGEIIPPLHTDNYDSTNMPLMQTQQNLPHTQIPQQTTGKWYP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

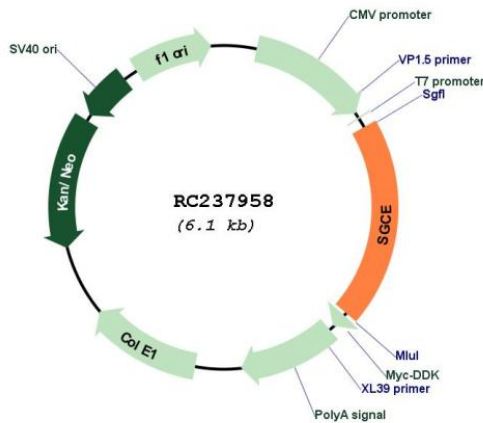
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]