

Product datasheet for **SC125314**

SGCE (NM_003919) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGCE (NM_003919) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGCE
Synonyms:	DYT11; epsilon-SG; ESG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC125314 representing NM_003919. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAATTGCCCGGTGGTGGGAGCTGGGAGACCCCTGTGCTTGGACGGGACAGGGTCGGGGACACGC
AGGATGAGCCCCGCGACCACTGGCACATCTTGCTGACAGTGTACAGTATTTTCTCCAAGGTACTCTCC
GATCGGAATGTATACCCATCAGCAGGTGCTCTTTGTTTCATGTTTTGAAAAGAGAATATTTAAGGGG
GAATTTCCACCTTACCCAAAACCTGGCGAGATTAGTAATGATCCATAACATTTAATACAAATTTAATG
GGTACCAGACCGACCTGGATGGCTTCGATATATCCAAAGGACACCATATAGTGATGGAGTCTATAT
GGGTCCCCAACAGCTGAAAATGTGGGAAGCCAACAATCATTGAGATAACTGCCTACAACAGGCGCACC
TTTGAGACTGCAAGGCATAATTTGATAATTAATAATAATGTCTGCAGAAGACTTCCCGTTGCCATATCAA
GCAGAATTCCTTAAGAATATGAATGTAGAAGAAATGTTGGCCAGTGAGGTTCTTGGAGACTTCTT
GGCGCAGTGAAAAATGTGTGGCAGCCAGAGCGCCTGAACGCCATAAACATCACATCGGCCCTAGACAGG
GGTGGCAGGGTGCCACTTCCCATTAATGACCTGAAGGAGGGCGTTTATGTCATGGTTGGTGCAGATGTC
CCGTTTTCTTCTGTTTACGAGAAGTTGAAAATCCACAGAATCAATTGAGATGTAGTCAAGAAATGGAG
CCTGTAATAACATGTGATAAAAAATTCGTAATCAATTTTACATTGACTGGTGCAAAATTTTATTGGTT
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CCTGTGACTGGGAAATCATACCTCCTTTACACACAGACAATGATAGCACAACATGCCATTGATG
CAAACGCAGCAGAATTTGCCACATCAGACTCAGATTCCCCAACAGCAGACTACAGGTAATGGTATCCC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003919 unedited</p> <pre> NGGGTCAAAATTTGATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCTAGCCA GGCCAAGAATGCAATTGCCCCGGTGGTGGGAGCTGGGAGACCCCTGTGCTTGGACGGGAC AGGGTCGGGGGACACGCAGGATGAGCCCCGCGACCACTGGCACATTCTTGCTGACAGTGT ACAGTATTTTCTCCAAGGTACTCCGATCGGAATGTATACCCATCAGCAGGTGTCTCT TTGTTTCATGTTTTGAAAAGAGAATATTTTAAGGGGAATTTCCACCTTACCCAAAACCTG GCGAGATTAGTAATGATCCATAACATTTAATACAAATTTAATGGGTTACCCAGACCGAC CTGGATGGCTTCGATATATCCAAAGGACACCATATAGTGATGGAGTCTATATGGGTCCC CAACAGCTGAAAAATGTGGGAAGCCAACAATCATTGAGATAACTGCCTACAACAGGCGCA CCTTTGAGACTGCAAGGCATAATTTGATAATTAATATAATGTCTGCAGAAGACTTCCCGT TGCCATATCAAGCAGAATTCTTCATTAAGAATATGAATGTAGAAGAAATGTTGGCCAGTG AGGTTCTTGAGACTTTCTTGCGCAGTGAAAAATGTGTGGCAGCCAGAGCGCCTGAACG CCATAAACATCACATCGGCCCTAGACAGGGGTGGCAGGGTGCCACTTCCCATTAATGACC TNGAAGAGGGCGTTTATGTCATGGTTGGTGCAGATGCCCGTTTTCTTCTGTTTACGAG AAGTTGAAATCCCAGAAATCATTGAGATGTAGTCAAGAAATGGAGCCCTGTATAACATG TGATAAAAATTTGCGACTCCATTTACATTGACTGGTGCAAAATTCATTGGTTGAT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003919 unedited</p> <pre> CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTCATTAATAATATTTATTTAAAAATCAACTTTTATTGTAACAAATTTAAAGTCTTCAA TGTTTTACAAATGTCAAAAATGCTTTAAGTCAAAAAAATCCTTTATTTAAATGAAAGT TTTGTGTTTTATTGGGTATACACTTAATACTGCCAACATGCTTAACATTTGCCAAAAAA GCTCATGCTTTTTTGAAAAAATAAATGAGGCTATCATAGTTGTCTGGGGTAAAGGA GGTTTGATTTCCCAGTACAGGGGGAAACACAGGAAGCGTTGACAGGGGCCATGCTATC TTTTTATTTTTGGACATGTTTCGAAGCTCCTTGGTAAATTTCTGAATACCACTGTGATGG ACCAGTTGGATGACCCCTTCCCGTCGGCGGCACATGATTTAAGCAAGTTTTAAAAAAGG ACCAGTGCCACTGCCGAGGGCACAGCCAGTGTAATTAGGAAATCCGGGTAATAGTCTCTG CTTTTAAAGAATCAAAAGGGGTTTGTATTCTCCCCATCAGGTAATCCCTCTCCAC AAATCACTTCCTGATAGGTGGACTTGCTTTGTTTTCAACCAATGAAATTTGCCCA GCCATTGTAATTTGAGTCCGAAATTTTTATCACATGTTATTACAGGCTCCATTTCTTG ACTACATCTCAATGGATTTGGGATTTTCAACCTTCTCGTAAACAGAAGAAACGGGACT TCTGCACCAACCATGATTAACCCCTCTTTAGTTATTATGGGAAATGCCCCCTCCCCC CCTGCTTAGGCCGATGTATGTTTTGGGTTTCAGCCTTTGCTGCCCTTTTTACTGGCCA AAAGTTTCAAACTACTGCA </pre>
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_003919
Insert Size:	1314 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).
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:	<u>NM_003919.1</u>
RefSeq Size:	1658 bp
RefSeq ORF:	1314 bp
Locus ID:	8910
UniProt ID:	<u>O43556</u>
Cytogenetics:	7q21.3
Domains:	CADG
Protein Families:	Transmembrane
MW:	49.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 5. It encodes isoform 2, which lacks an internal in-frame segment and is shorter, compared to isoform 5.</p>