

## Product datasheet for **SC316525**

### SGCE (NM\_001099400) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SGCE (NM_001099400) 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:	>SC316525 representing NM_001099400. Blue=Insert sequence Red=Cloning site Green=Tag(s)

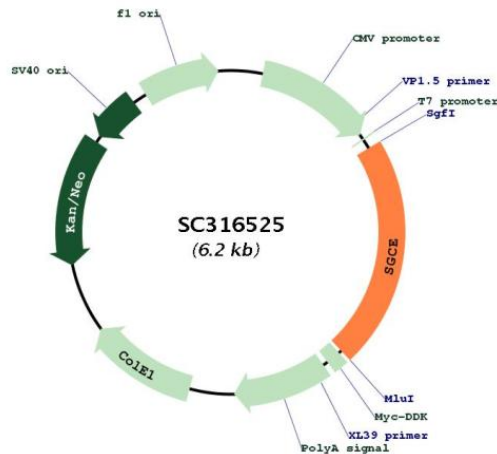
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:**



**ACCN:** NM\_001099400

**Insert Size:** 1356 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001099400.1](#)

**RefSeq Size:** 1717 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 8910

**UniProt ID:** [O43556](#)

**Cytogenetics:** 7q21.3

**Protein Families:** Transmembrane

**MW:** 51.4 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]  
Transcript Variant: This variant (3) lacks two exons and contains an additional exon in the coding region, compared to variant 5. It encodes isoform 3, which shares the same termini, but is shorter than isoform 5.