

Product datasheet for **RG217105**

SGCE (NM_001099401) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGCE (NM_001099401) 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)



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ORF Nucleotide Sequence:

>RG217105 representing NM_001099401
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAATTGCCCGGTGGTGGGAGCTGGGAGACCCTGTGCTTGGACGGGACAGGGTCGGGGACACGCA
 GGATGAGCCCCGCGACCACTGGCACATTCTTGCTGACAGTGTACAGTATTTCTCCAAGGTACACTCCGA
 TCGGAATGTATACCCATCAGCAGGTGTCCTCTTTGTTTCATGTTTTGAAAAGAGAATATTTAAGGGGAA
 TTTCCACCTTACCCAAAACCTGGCGAGATTAGTAATGATCCCATAACATTTAATACAAATTAATGGGTT
 ACCCAGACCGACCTGGATGGCTTCGATATATCCAAAGGACACCATATAGTGATGGAGTCTATATGGGTC
 CCCAACAGCTGAAAATGTGGGAAGCCAACAATCATTGAGATAACTGCCTACAACAGGCGCACCTTTGAG
 ACTGCAAGGCATAATTTGATAATTAATAATGTCTGCAGAAGACTTCCCCTGCCATATCAAGCAGAAT
 TCTTCATTAAGAATATGAATGTAGAAGAAATGTTGGCCAGTGAGGTTCTTGGAGACTTTCTTGGCGCAGT
 GAAAAATGTGTGGCAGCCAGAGCGCCTGAACGCCATAAACATCACATCGGCCCTAGACAGGGGTGGCAGG
 GTGCCACTTCCCATAATGACCTGAAGGAGGGCGTTTATGTCATGGTTGGTGCAGATGTCCCGTTTTCTT
 CTGTTTACGAGAAGTTGAAAATCCACAGAATCAATTGAGATGTAGTCAAGAAATGGAGCCTGTAATAAC
 ATGTGATAAAAAATTTCTGTAACAATTTACATTGACTGGTGCAAAAATTCATTGGTTGATAAAACAAAG
 CAAGTGTCCACCTATCAGGAAGTGATTCGTGGAGAGGGGATTTACCTGATGGTGGAGAATACAAACCC
 CTTCTGATTCTTTGAAAAGCAGAGACTATTACACGGATTTCTAATTACACTGGCTGTGCCCTCGGCAGT
 GGCCTGGTCTTTTTCTAATACTTGCTTATATCATGTGCTGCCGACGGGAAGGCGTGGAAAAGAGAAAC
 ATGCAAAACACAGACATCAACTGGTCCATCACAGTGTATTAGAAATCTACCAAGGAGCTTCGAGACA
 TGTCAAAGAATAGAGAGATAGCATGGCCCTGTCAACGCTTCTGTGTTCCACCCTGTGACTGGGAAAT
 CATACCTCTTTACACACAGACAACATGATAGCACAAACATGCCATTGATGCAAAACGCAGCAATGGAGT
 TTCGCTCTGTTGCCAGGCTGGAGTGCAATGGAGCGATCTTGGCTCACTGCAGCCTCCGCTCCAGGA
 ACTTGCCACATCAGACTCAGATTCACCAACAGCAGACTACAGGTAATGGTATCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217105 representing NM_001099401
 Red=Cloning site Green=Tags(s)

MQLPRWELGDPCAWTGQGRGTRRMSPATTGTFLLTVYSIFSKVHSDRNVYPSAGVLFVHVLEREYFKGE
 FPPYPKPGIEISNDPITFNTNLMGYDPRGWLRYIQRTPYSDGVL YGSPTAENVGKPTIIIEITAYNRRTFE
 TARHNLIIINIMSAEDFPLPYQAEFFIKNMNVEEMLASEVLGDFLGAVKNVWQPERLNAINITSALDRGGR
 VPLPINDLKEGVYVMVGADVPPFSSCLREVENPQNQLRCSQEMEPVITCDKKFRTQFYIDWCKISLVDKTK
 QVSTYQEVIRGEGILPDGGEYKPPSDSLKSRDYTDFLITLAVPSAVALVFLILAYIMCCRREGVEKRN
 MQTPDIQLVHHSIQSTKELRDMSKNREIAWPLSTLPVFPVPTGEIIPPLHTDNYDSTNMPLMQTQQWS
 FAPVAQAGVQWSDLGSLQPPPPRNLPHTQIPQQQTGKWYP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001099401.2</u>
RefSeq Size:	1784 bp
RefSeq ORF:	1389 bp
Locus ID:	8910
UniProt ID:	<u>O43556</u>
Cytogenetics:	7q21.3
Protein Families:	Transmembrane
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]