

## Product datasheet for **RG229795**

### SCO2 (NM\_001169111) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SCO2 (NM\_001169111) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SCO2  
**Synonyms:** CEMCOX1; ECGF1; Gliostatin; MC4DN2; MYP6; PD-ECGF; SCO1L; TdRPase; TP; TYMP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229795 representing NM\_001169111  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCTGCTGACTCGGAGCCCCACAGCTTGGCACAGGCTCTCTCAGCTCAAGCCTCGGGTCTCCCTG  
 GGACCCTGGGAGGCCAGGCCCTGCATCTGAGGTCCTGGCTTTTGTCAAGGCAGGGCCCTGCAGAGACAGG  
 TGGGCAGGGCCAGCCCCAGGGCCCTGGGCTTCGAACCCGGCTGCTGATCACAGGCCTGTTCCGGGGTGA  
 CTCGGTGGGGCTGGCTGGCCCTGAGGGCTGAGAAGGAGAGGCTGCAGCAGCAAAAGCGAACAGAAGCCC  
 TGCGCCAGGCAGCTGTGGCCAGGGCGACTTCCACCTGCTGGATCACAGAGGCCGGGCTCGCTGCAAGGC  
 TGACTTCCGGGGCCAGTGGGTGCTGATGTACTTTGGCTTCACTCACTGCCCTGACATCTGCCAGACGAG  
 CTGGAGAAGCTGGTGCAGGTGGTGCAGGAGCTGGAAGCAGAGCCTGGTTTGCCTCCAGTGCAGCCTGTCT  
 TCATCACTGTGGACCCCGAGCGGGACGACGTTGAAGCCATGGCCCGCTACGTCCAGGACTTCCACCCAAG  
 ACTGTTGGGTCTGACCGGCTCCACCAAACAGGTTGCCAGGCTAGTCACAGTTACCGCGTGTACTACAAT  
 GCAGGCCCAAGGATGAGGACCAGGACTACATCGTGGACCACTCCATTGCCATCTACCTGCTCAACCCTG  
 ACGGCCTTTCACGATTACTACGGCCGAGCAGATCGGCTGAGCAGATCTCAGACAGTGTGCGCGGGCA  
 CATGGCGGCTTCCCGAGTGTCTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229795 representing NM\_001169111  
 Red=Cloning site Green=Tags(s)

MLLLTRSPATAWHRLSQLKPRVLPGLTGGQALHLRSWLLSRQGPAETGGQGPQGPGLRTRLLITGLFGAG  
 LGGAWLALRAEKERLQQQKRTEALRQAAVGGQDFHLLDHRGRARCKADFRGQWVLMYFGFTHCPDICPDE  
 LEKLVQVVRQLEAEPGLPPVQPVFITVDPERDDVEAMARYVQDFHPRLLGLTGSTKQVAQASHSYRVYYN  
 AGPKDEDQDYIVDHSIAIYLLNPDGLFTDYYGRSRAEQISDSVRRRHMAAFRSVLS

TRTRPLE - GFP Tag - V

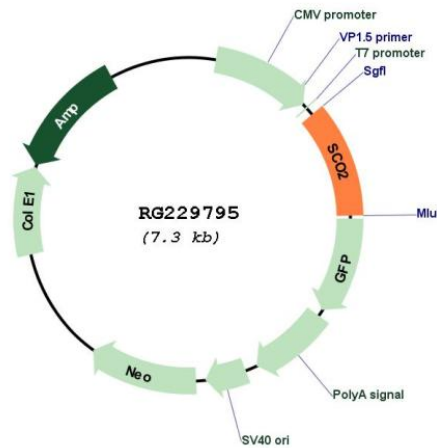
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_001169111

ORF Size: 798 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001169111.1</a> , <a href="#">NP_001162582.1</a>
<b>RefSeq Size:</b>	1020 bp
<b>RefSeq ORF:</b>	801 bp
<b>Locus ID:</b>	9997
<b>UniProt ID:</b>	<a href="#">O43819</a>
<b>Cytogenetics:</b>	22q13.33
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Cytochrome c oxidase (COX) catalyzes the transfer of electrons from cytochrome c to molecular oxygen, which helps to maintain the proton gradient across the inner mitochondrial membrane that is necessary for aerobic ATP production. Human COX is a multimeric protein complex that requires several assembly factors; this gene encodes one of the COX assembly factors. The encoded protein is a metallochaperone that is involved in the biogenesis of cytochrome c oxidase subunit II. Mutations in this gene are associated with fatal infantile encephalomyopathy and myopia 6. [provided by RefSeq, Oct 2014]