

Product datasheet for **RC229794**

SCO2 (NM_001169110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCO2 (NM_001169110) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SCO2
Synonyms:	CEMCOX1; ECGF1; Gliostatin; MC4DN2; MYP6; PD-ECGF; SCO1L; TdRPase; TP; TYMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229794 representing NM_001169110 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCTGCTGACTCGGAGCCCCACAGCTTGGCACAGGCTCTCTCAGCTCAAGCCTCGGGTCTCCCTG
GGACCCTGGGAGGCCAGGCCCTGCATCTGAGGTCCTGGCTTTTGTCAAGGCAGGGCCCTGCAGAGACAGG
TGGGCAGGGCCAGCCCCAGGGCCCTGGGCTTGAACCCGGCTGCTGATCACAGGCCTGTTCCGGGGTGA
CTCGGTGGGGCTGGCTGGCCCTGAGGGCTGAGAAGGAGAGGCTGCAGCAGCAAAAGCGAACAGAAGCCC
TGCGCCAGGCAGCTGTGGCCAGGGCGACTTCCACCTGCTGGATCACAGAGGCCGGGCTCGCTGCAAGGC
TGACTTCCGGGGCCAGTGGGTGCTGATGTACTTTGGCTTCACTCACTGCCCTGACATCTGCCAGACGAG
CTGGAGAAGCTGGTGCAGGTGGTGCAGGAGCTGGAAGCAGAGCCTGGTTTGCCTCCAGTGCAGCCTGTCT
TCATCACTGTGGACCCCGAGCGGACGACGTTGAAGCCATGGCCCGCTACGTCCAGGACTTCCACCCAAG
ACTGTTGGGTCTGACCGGCTCCACCAAACAGGTTGCCAGGCTAGTCACAGTTACCGCGTGTACTACAAT
GCAGGCCCAAGGATGAGGACCAGGACTACATCGTGGACCACTCCATTGCCATCTACCTGCTCAACCCTG
ACGGCCTTTCACGGATTACTACGGCCGGAGCAGATCGGCTGAGCAGATCTCAGACAGTGTGCGGGCGCA
CATGGCGGCTTCCCGCAGTGTCTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229794 representing NM_001169110
 Red=Cloning site Green=Tags(s)

MLLLTRSPATAWHRLSQLKPRVLPGLTGGQALHLRSWLLSRQGPAETGGQGPQGPGLRTRLLITGLFGAG
 LGGAWLALRAEKERLQQQRTEALRQAAVGQDFHLLDHRGRARCKADFRGQWVLMYFGFTHCPDICPDE
 LEKLVQVVRQLEAEPGLPPVQPVFITVDPERDDVEAMARYVQDFHPRLLGLTGSTKQVAQASHSYRVYYN
 AGPKDEDQDYIVDHSIAIYLLNPDGLFTDYYGRSRSAEQISDSVRRRHMAAFRSVLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001169110

ORF Size: 798 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:

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_001169110.1](#), [NP_001162581.1](#)

RefSeq Size: 1002 bp

RefSeq ORF: 801 bp

Locus ID: 9997

UniProt ID: [O43819](#)

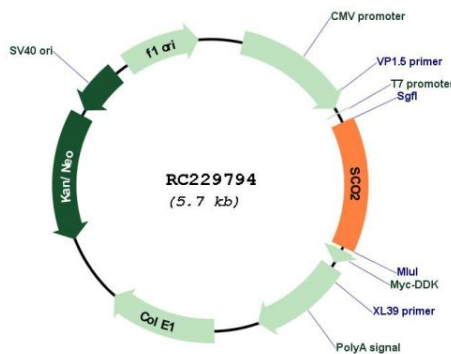
Cytogenetics: 22q13.33

Protein Families: Druggable Genome

MW: 29.8 kDa

Gene Summary: 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 encephalocardiomyopathy and myopia 6. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC229794