

Product datasheet for **SC322450**

SCO1 (NM_004589) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCO1 (NM_004589) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCO1
Synonyms:	MC4DN4; SCOD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for SC322450

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>OriGene sequence for SC322450
GCGGTCTCCGAGGCTCATGGCGATGCTGGTCCTAGTACCCGGACGAGTTATGCGGCCTCT
GGGTGGCCAACCTTTGGCGCTTCTTGCTCGCGGACTCGAGTTTTGGGGCCAGCCGAGGG
GACTGCGAGAGTCTTGCTGAGGCAGTTCTGCGCGCGGCAAGCGGAGGCGTGCGTGCCTC
GGGGCGCCTGGCTATTGCTGGGAACCCGGCCCTCAGCACTGCGAGGCCGCCACCCCC
GTGGTCGAGAAGGGCCCGGAGACTCCACGCGCCCTCGAAGCCGGGCCTGTTTCCTG
GAAGTCTTTAGCAATCACATTTGCTATTGGAGGAGCTTTACTGGCTGGAATGAAGCACGT
CAAGAAAGAAAAGGCAGAGAAGTTAGAGAAGGAACGGCAGCGACACATCGGCAAGCCTTT
ACTTGGGGGACCGTTTTCCCTCACAACTCATACTGGGGAGCGTAAACTGACAAGGACTA
CTTGGGTCAGTGGTTATTGATTTATTTGGCTTCACTCATTGCCCTGATGTCTGTCCAGA
AGAACTAGAAAAGATGATTCAAGTCGTGGATGAAATAGATAGCATTACAACCTCTGCCAGA
TCTAACTCCACTTTTCATCAGCATTGACCCAGAGAGGGACACAAAAGAAGCCATCGCAAA
TTATGTGAAAGAATTTCTCCAACTGTTGGCTTGACTGGCACGAGAGAAGAGTCTGA
TCAAGTGGCCAGAGCATACAGAGTGATTACAGCCCTGGCCCCAAGGACGAAGATGAAGA
CTACATAGTGGATCACACAATAAATGTACTTGATTGGACCAGATGGTGAGTTTCTAGA
TTATTTTGGCCAGAACAAAGGAAGGGAGAAATAGCTGCTTCAATTGCCACACATGAG
GCCATACAGAAAAAGAGCTAGCCAAAGCAGTGTGCTGGATGCAGTATTCTCTTGCTAA
GAGGAAGGAACTGTCTCGCATAGGAGCCTATATAAATATAAACATATATACGTGCACTC
TACAGAATGGCCTTCATACCATGAGAACATTTCTGTTTTGGATGGGGATGTTACCCTTGC
GTTCAACCAAAATTGATTCTTGGAAGTGTAAAGATTACAACCCAAAGTCTCCAGGAAGC
TGTGGGGAGACCAGAGGATCAAGCTGAAGTGAAGCCAGTGAAGAGCCACCTGTGGAAGG
ACATGGCGGGGCGAGGCACAGCCAGTGCATTCTGCTGCGAACAGGCCCTCCAGCAGC
TTTGCCGCTCTCCATCGTCTTGGGCCCTTGCTCAAATAGCTGTGGGACTGAATTTACA
GAAAAGAATATAATTTCCATAGTGCTCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire



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ACCN:	NM_004589
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:	<u>NM_004589.1, NP_004580.1</u>
RefSeq Size:	1719 bp
RefSeq ORF:	906 bp
Locus ID:	6341
UniProt ID:	<u>O75880</u>
Cytogenetics:	17p13.1
Domains:	SCO1-SenC
Gene Summary:	Mammalian cytochrome c oxidase (COX) catalyzes the transfer of reducing equivalents from cytochrome c to molecular oxygen and pumps protons across the inner mitochondrial membrane. In yeast, 2 related COX assembly genes, SCO1 and SCO2 (synthesis of cytochrome c oxidase), enable subunits 1 and 2 to be incorporated into the holoprotein. This gene is the human homolog to the yeast SCO1 gene. [provided by RefSeq, Jul 2008]