

Product datasheet for **SC214813**

COX10 (NM_001303) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	COX10 (NM_001303) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	COX10
Synonyms:	MC4DN3
ACCN:	NM_001303
Insert Size:	1494 bp



[View online »](#)

Insert Sequence: >SC214813 3'UTR clone of NM_001303
The sequence shown below is from the reference sequence of NM_001303. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGCGGGGACGCAGGGCCCTCCAGCTGAGAGCACTGGGACGCCACCGCCCTTTCCCTCCGCTGCC
AGGCGAGCATGTTGTGGTAATCTGGAACACAAGAAGAGAAATTGCTGGGTTTAGAACAAGATTATAAA
CGAATTCGGTGCTCAGTGATCACTTGACAGTTTTTTTTTTTTTAAATATTACCCAAATGCTCCCAA
ATAAGAAATGCATCAGCTCAGTCAGTGAATACAAAAAGGAATTATTTTCCCTTTGAGGGTCTTTATA
CATCTCTCTCCAACCCACCCTCTATTCTGTTTCTTCTCCTCACATGGGGGTACACATACACAGCTT
CCTTTTTGGTTCCATCCTTACCACCACACCACACGCACTCCACATGCCAGCAGAGTGGCACTTGG
TGGCCAGAAAGTGTGAGCCTCATGATCTGCTGTCTGTAGTTCTGTGAGCTCAGTCCCTCAAAGGCCTC
GGAGCACCCCTTCTGGTGACTGAGCCAGGGCTGCATTTTTGGTTTTCCACCCACACATTCTCA
ACCATAGTCCTTCTAACAATACCAATAGCTAGGACCCGGCTGCTGTGCACTGGGACTGGGATTCCACA
TGTTCGCTTGGGAGTCTCAAGCTGGACTGCCAGCCCTGTCTCCCTTACCCCATTCGCTATGAGC
ATTTAGAACTCCAAGGAGTACAGGCATCTTTATAGTTCACGTAAACATATAGACTGTTGGAAGCA
GTTCTTCTAAAAGGGTAGCCCTGGACTTAATACCAGCCGGATACCTCTGGCCCCACCCCACTACTGT
ACCTCTGGAGTCACTACTGTGGGTCGCCACTCCTCTGCTACACAGCACGGCTTTTTCAAGGCTGATTG
AGAAGGGAAGTTAGGAAGAAGGGTGTGCTGGGTAACCAGCCACAGAGCTCACATTCTGTCCCTTGG
GTGAAAAATACATGTCCATCCTGATATCTCCTGAATTCAGAAATTAGCCTCCACATGTGCAATGGCTT
AAGAGCCAGAAGCAGGGTCTGGGAATTTGCAAGTTATCCTGTGGCCAGGTGTGGTCTCGGTTACCAA
ATACGGTTACCTGCAGCTTTTTAGTCCTTTGTGCTCCCACGGGTCTGCAGAGTCCCATCTGCCCAAAGG
TCTTGAAGCTTGACAGGATGTTTTCACTACTCAGTCTCCAGGGCACTGCTGGTCCGTAGGGATTCACT
GGTCGGGGTGGGAGGTTAAACAACATTTAAACAGAGTTCTCTCAAAAATGTCTAAAGGGATTGTAGGT
AGATAACATCCAATCACTGTTTGCATTTATCTGAAATCTTCCCTCTGGCTGCCCCAGGTATTTACTG
TGGAGAACATTGCATAGGAATGTCTGGAAAAAGCCTCTACAACCTGTTACAGCCTTACATTTGTACAA
TTCATTGATTCTTTTTCTTCCACAATAAAATGGTATAACAAGAA
ACGCGTAAGCGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

Restriction Sites: Sgfl-Mlul

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_001303.4](#)

Summary:

Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes heme A:farnesyltransferase, which is not a structural subunit but required for the expression of functional COX and functions in the maturation of the heme A prosthetic group of COX. This protein is predicted to contain 7-9 transmembrane domains localized in the mitochondrial inner membrane. A gene mutation, which results in the substitution of a lysine for an asparagine (N204K), is identified to be responsible for cytochrome c oxidase deficiency. In addition, this gene is disrupted in patients with CMT1A (Charcot-Marie-Tooth type 1A) duplication and with HNPP (hereditary neuropathy with liability to pressure palsies) deletion. [provided by RefSeq, Jul 2008]

Locus ID:

1352

MW:

54.9