

Product datasheet for **SC215177**

COX11 (NM_004375) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	COX11 (NM_004375) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	COX11
Synonyms:	COX11P
ACCN:	NM_004375
Insert Size:	2000 bp



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Insert Sequence: >SC215177 3'UTR clone of NM_004375
 The sequence shown below is from the reference sequence of NM_004375. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CACAAAGTTGCCAGTTCAGGATATAATGAAGTCAGCAACTAAGTCTTCCTTCAAAGTTGTGATTTTTG
GGAAAATCATATATCCTATCTTCTCAAAGGAGAAATATTGTACAATAATATGAAGCTTATATTTTAAA
TAATTATTTTTCTCAACTAATTTTTCTACTTAACTTGAGAGAACAAGTTCAGCTTTTATCATAAGA
AACTCATATGCCTAGCTAGAATATGACTGACTATTCAATACCATACTGAAGAGTTTGATACTATTAA
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CTGAATAATTACTTTGAACTGTAGTATCATAAAATTGAAATAAAATACATCTACTAGGCTGTTAGCCA
AAGCATCAACATTACAAGTCCATGAATGTTAAATGTACAGGTGGGATTGTGAAGATTTACTGACATCA
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GTCATCAAATGTACAACCTATTCTAAATATTTTCAATTTCTGTGTTCTAAATAGAAAATTAAGTTGCA
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AGTAAAAAATCTACTCTTATCACAGCTGTGTGACGATTTCTAAATGTAGGAAGGCTGTGAAACATGA
CACTGCAGTTAAATGGTTGGCCTAAGGACTAAGTAATTTTTCTTCTGCTGAAGTTTTAAGTGAGTATT
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CTATTTAATCTTATTATAGCAGAAATGTGCCACCATGGCTTTGACATGTTGGTAGGTATTGCTTCCA
GGCTTCAAAGCTGCACAGAGTCTACGTTTTAGAGAGTTGGCACCTTTGATGTGGTAGTGAGCTGATCAT
CCACTTTCTTCTAAAATAAAGAGAAGAAAATGGCCAGTATTCATCCTGTCCTTCTTTCCCATTCCT
TGATAACTCTCTTGTCTTTACTGGGAAGCTGGAGAGTACAGTCTAGTAGAAGAAAGGTAAGAATGTGC
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GGTCTACTGGTACCGGTTAACAAGTATTAAGTGCATATGAAAAACAAATGCCTGATTTTCAAGTGTACTC
CTATTGCTCATCTATTTGTTAGCATTAAATTTCTATACCATAAACTACTGTATTTCCCAAGCCTTACT
ATTTACAGATGAGAAAATCACAAAGAATGACTCTCATTAGTGAACAATGGTTGAGCAATTTGAATG
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

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_004375.5](#)

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 a protein which is not a structural subunit, but may be a heme A biosynthetic enzyme involved in COX formation, according to the yeast mutant studies. However, the studies in *Rhodobacter sphaeroides* suggest that this gene is not required for heme A biosynthesis, but required for stable formation of the Cu(B) and magnesium centers of COX. This human protein is predicted to contain a transmembrane domain localized in the mitochondrial inner membrane. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene has been found on chromosome 6. [provided by RefSeq, Jun 2009]

Locus ID:

1353

MW:

78.3