

## Product datasheet for **SC209491**

### **COX7A2L (NM\_004718) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	COX7A2L (NM_004718) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	COX7A2L
Synonyms:	COX7AR; COX7RP; EB1; SCAF1; SCAFI; SIG81
ACCN:	NM_004718
Insert Size:	1911 bp



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**Insert Sequence:** >SC209491 3'UTR clone of NM\_004718  
 The sequence shown below is from the reference sequence of NM\_004718. 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
TACATGGCTTCGCAGCCAAAAACAAATGAGTTAGGCTGCAGAGGACTGGTTGTTTTTTGGCATAAAC
CCTTTGAAGTTCCTTTTTTATTGTTAAATTTAAATTTTTTTTTTTACTTGATGGCTTAACATTTTTGC
AAGAAAAATAGGAAGATATGAAGATGATTTTTGGTTTGTATGAAATGCATATGGCTTGCAGAGCT
CATTTCGACAGTTAAAGCCATTGTTAAAGAAATGGTGCTTTGCTCTGTGTTTGTGCTCCTGATTTCCCT
GGAGGTTCTGGATGAAGGCTGAACACAGGCTTGTAAATGTCAGTCTGTGCTGAGGACCTCAGGGACTTG
AGGTTGCATTTTTGAGCATGGGGTGCAGGAGCCTTTCTGGATTTGGATGTGGCTATGAAAGAACACAG
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TAAATGTTAAATTAATGTAGCCTGCCTCTATTTGTTGGGAGGTAATTTCAAAGGGTTATTTGCCTCA
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TGCACTTTAGACTGGTGTCTGTTTTGTTAATGCAGCTGTGCCACAAATCTCCTTTATCTTTAAAAAT
GTTATAGCTTTAAATTTGATTTATTTGACTGTGGAATAAATACATGAATGAAAAATTTAAGTTTGA
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TCAGACTACAGAAGGACTAAGCATAGTACAATATACACCTGTATATCCTTCACTTAGATCACCAGTTAT
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ACATAGATCTGTTTTTGTGAGTCATTTAAGATTGTTAGGGAATTATGATAAATCAGCCATAGTACTT
TAGCAGGTATCTCTGAGTAAGGACATGTTCCTTTATAACCATAATGCAGTTGTCAGACTCAATAAA
GTTAACATTTATAACAATACTACCATCTAATACATAGTTTACTTTAGATTTCCCAGGTGTTCTAATA
ATGAGTTCTTCATAGTTGTGTTTTTAAAAAATAACAGCTTTATTGGGATATAATTTACATACTGTACAG
TTCACCTCAAGTGTACAATTCATTGGTTTTTACTGTATTTGGAGTTGTACAGCCACCATGAGAATCAAT
TTTAGAACACTTATATCACCTAAAAAGAAACCCCATACCCATTAGCAATCACTTGCCTTCCCTCCAC
CATCCCAACTCCACCTCCTAGCCCAAAGCAAGCACTCATCTACTTTCAGTCTCTATGGATTTGTCTTT
CCTGGACATTTTATATAAATAATCATATGATGTGTGATGTACGTGA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCACCCGCCCTTCTATGAAAGG
  
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**Restriction Sites:** Sgfl-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\\_004718.4](#)

**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 a protein similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen. Several transcript variants, some protein-coding and others non-protein coding, have been found for this gene. [provided by RefSeq, Jan 2016]

**Locus ID:**

9167

**MW:**

73