

## Product datasheet for SC114236

### COX16 (NM\_016468) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COX16 (NM_016468) Human Untagged Clone
Tag:	Tag Free
Symbol:	COX16
Synonyms:	C14orf112; hCOX16; HSPC203
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114236 sequence for NM_016468 edited (data generated by NextGen Sequencing)

```
ATGTTTGCACCCGCGGTGATGCGTGCTTTTCGCAAGAACAAGACTCTCGGCTATGGAGTC
CCCATGTTGTTGCTGATTGTTGGAGTTCTTTTGGTCTTCGTGAGTTTTCTCAAATCCGA
TATGATGCTGTGAAGAGTAAAATGGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAA
ATATCTTTAGAGTCGGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGAAGAAT
ATTCGAGGACCCAGGCCTTGGGAAGATCCTGACCTCCTCCAAGGAAGAAATCCAGAAAGC
CTTAAGACTAAGACAACCTGA
```

Clone variation with respect to NM\_016468.6

5' Read Nucleotide Sequence: >OriGene 5' read for NM\_016468 unedited

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TAGAATTTGTATACGACTCACTATAGGGCGGCCGATTTCGGCACGAGGCTGAGATTTGG
GAGTCTGCGCTAGGCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACTTCATGTTTGC
ACCCGCGGTGATGCGTGCTTTTCGCAAGAACAAGACTCTCGGCTATGGAGTCCCATGTT
GTTGCTGATTGTTGGAGTTCTTTTGGTCTTCGTGAGTTTTCTCAAATCCGATATGATGC
TGTGAAGAGTAAAATGGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATCTTT
AGAGTCGGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGAAGAATATTCGAGG
ACCCAGGCNCTTGGGAAGATCCTGACCTCCTCCAAGGAAGAAATCCAGAAAGCCTTAAGA
CTAAGACAACCTGACTCTGCTGATTCTTTTTTCTTTTTTTTTTTTTTAAATAAAAATAT
TATTAAGTGGACTTCCTAATATATACTTCTATCAAGTGGAAAGGAAATCCAGGCCCATG
GAAACTTGGATATGGGTAATTTTGATGACAAAATCTTCACTAAAGGTCATGTACAGGG
TTTTTATACTTTCCAGCTATCCATCTGTGGGATGAAAGTAACAATGTTGGCAAGTTA
TATTTTACACCCTCGAAATAAAAATGGTGAACCTGCTCCAAAAACAAAGTCACGTATT
TCCACTTTCACACTACCCACATTTTCTTTTTGCATACCCCTTTAGGGCATCATTTGGAA
ATTCATTTGCGGATTTCTGATCTTTGAATTCGGAATCCAAGGAGGCACATAGGGTTTGG
GAACCAATTTTCCAGGAAAATAAAGCCGNAATTTTTTTCTCATTATAAT
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<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016468
<b>Insert Size:</b>	1640 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_016468.3</a></u> , <u><a href="#">NP_057552.1</a></u>
<b>RefSeq Size:</b>	710 bp
<b>RefSeq ORF:</b>	321 bp
<b>Locus ID:</b>	51241
<b>UniProt ID:</b>	<u><a href="#">Q9P0S2</a></u>
<b>Cytogenetics:</b>	14q24.2
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>Gene Summary:</b>	Required for the assembly of the mitochondrial respiratory chain complex IV (CIV), also known as cytochrome c oxidase (PubMed:29355485, PubMed:29381136). Promotes the insertion of copper into the active site of cytochrome c oxidase subunit II (MT-CO2/COX2) (PubMed:29355485, PubMed:29381136). Interacts specifically with newly synthesized MT-CO2/COX and its copper center-forming metallochaperones SCO1, SCO2 and COA6 (PubMed:29381136). Probably facilitates MT-CO2/COX2 association with the MITRAC assembly intermediate containing MT-CO1/COX1, thereby participating in merging the MT-CO1/COX1 and MT-CO2/COX2 assembly lines (PubMed:29381136).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).