

## Product datasheet for **SC320476**

### coproporphyrinogen oxidase (CPOX) (NM\_000097) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	coproporphyrinogen oxidase (CPOX) (NM_000097) Human Untagged Clone
Tag:	Tag Free
Symbol:	coproporphyrinogen oxidase
Synonyms:	COX; CPO; CPX; HARPO; HCP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000097.4  
 AGCTCGCCGGCTCAATACTCCGGGGTCTGGTGGGGGCTCAAACGCAGGGCTCTGGGA  
 CGCAGGCACTGCTCCAGGTGATAGTGCGGGAACATGGCCTTGACGCTGGGCAGGCTGAGC  
 TCGGGCCCTGCTGGCTCGTGGCGGGGGCGGCTGCGGAGGGCCCCGCGCCTGGTCCCAG  
 TGCGGGCGGGAGGGCTCCGAGCCTGGTCCCAGCGCAGCGCAGCCGGACGCGTCTGCCGG  
 CCCCCTGGCCCGGCTGGCACGGAGCAGACCCGGGGCTGGGACAGGCTCGACGTCGAGA  
 GCGGGCCCTGGGTGGGACAGGGCTGGCCGCGGCGCTGGCGGGGTTGGTGGGGCTGGCC  
 ACCGCGCCTTCGGGCATGTGCAGCGGGCGGAGATGTTGCCTAAGACCTCGGGGACGCGG  
 GCCACTTCGCTGGGGAGCCGGAGGAGGAGGATGAGCTGGCCACCCTGCAGCAGC  
 TTCATGGCCCCGCTGTGACCGACTGGGCGAGCTGCGAAGGAGGCCGGGCGACATGAAG  
 ACCAAGATGGAGCTGCTGATTCTGGAGACCCAGGCCAGGTGTGCCAGGCTCTGGCACAG  
 GTAGACGGGGGCGCAACTTTTCTGTGGACCGTGGGAGAGGAAGGAAGGAGGTGGCGGC  
 ATCAGCTGTGACTTCAAGATGGGTGTGTTTTCGAAAAGGCTGGGGTGGCATTCTGTT  
 GTTCATGAAATCTTTCAGAGGAAGCTGCAAAAACAATGAGAAGCAGAGGAAAAGTTCTG  
 AAGACTAAGATGTTAAATTGCCATTTTGTCTATGGGCGTGGAGCTCTGTTATCCACCCC  
 AAGAATCCTCATGCTCCTACTATCCATTTCAACTACAGATACTTTGAAGTGAAGAGCT  
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 CAAGAAGACGCTGTCATTTTACAGAACTCTGAAGGAGGCTTGTGACCAGCATGGTCCA  
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 GTGTTTCGCTTTGTACAGAGCTGCCAGGGCTGATGTTCTTCTTACATTCCCCTTGTG  
 AAAAAGCACTGTGATGACTCATTACCCCCAGGAGAAGCTGTGGCAGCAGCTCAGAAGA  
 GGACGGTATGTAGAATTAATCTGCTGTATGATCGGGGCACAAAGTTTGGCCTCTTCT  
 CCAGGATCCAGAATTGAAAGTATCTTGTGCTTTACCTTAACCTGCCCGATGGGAGTAC  
 ATGCATTCACCCTCAGAGAATTCAAAAGAAGCTGAAATCTGGAAGTTCTACGCCATCCA  
 AGGGACTGGGTGCGTTGATGCAGGCAGAATGGCTGTGCAGGGGTTTGGAGGGCACACGAT  
 GTGTGCTCCCATGCCACTGGTGGCAGCTTTGCCACTGTGTGGCAGTTACCCGTGCCTTA  
 GTCTTCTCCACTCTGCACCCTACCTCGTGGCAGATGATAACATGTTTTGGATGCTGTCC  
 GTGATGAATGGTGGAGATGGCAGATTGTCAGAGTCAATTGATTAACCTCATTATACTTC  
 TAGTGTCATTTTATGACTAGTTTACAAAATAGGACATTGAGTTTCCAAGTATTGAGAT  
 AAGGGAATATAAATAGTATTATATGTATCAGGAAATCTCTCATCTGTTTTTGTTCATG  
 TATTTTTTAAAGTTTTCAATTTGTGCCACAAAATCTGTGCTGGAATATATTTATTTTCA  
 TTAATTCAGTGAAGTTGAGACTTCATAGTAATTTTAGAATGCAACTTGAAGGTAAAAAT  
 TTACTTTGTCAATACTGAAGTCTCTGCTGTAATCCTTATATATCTTTCTCCAGAGAACAT  
 AATATTGTCAAATAGATACACATTTTCTAATAGGTATTTAGAAGCACTTGAATATTCT  
 TAATCTCTGCATGTGTTACAATTCAGTTATTTCTGTAGTTTGTAACTCTAAAGTGACAT  
 TACTATTATTTAGAGATGTCTAAGTTGTAATTTTGTATTTTGTGGAACCATTGTTTGT  
 AATGTTGGGATTTCTGCACTTTTGAATGTGAAAGCTTATATCCCTGAATTTCTGACTT  
 AAGAGTTTTCTATTTAGACATCTCTGTGTGGAAGTTGAGACTAAGAATAATCCTAGGGA  
 TGCATGAATTTAGGCAATGTTTCTCATTGGAAAATGAAATGAGAAATAATTTCTTCT  
 TTAAGCAAGTATATATAGTATGAGAACTTGGAGGCATTTTATACACACATTTCTTAGG  
 AAAATGGACACATTGAAAATGTCCTCTTTTTTATATTAGAGATTCTGCAGCTCTTTGCTC  
 TTAAGAGCAAAATCACAACAGGATTTAATGTATGATTTCTTTGTTTATATATTGAAT  
 GTATTATTTTATTTGCTTCGTAATAAAGTTTATAAGGAAGAGCATCTCATAACATCATT  
 ATCGTGGAACACGTTGAATGTTTGTGATTCTGTGTGGCCTTTTTGGGGCTGGAAAATGTA  
 TGAATTTCAACTGTCTTACAAGAGATCTGCTAATAAATTTTATTATTAATAAGACTA  
 AAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000097

<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>OTI Annotation:</b>	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.
<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>	<a href="#">NM_000097.4</a> , <a href="#">NP_000088.3</a>
<b>RefSeq Size:</b>	2714 bp
<b>RefSeq ORF:</b>	1365 bp
<b>Locus ID:</b>	1371
<b>UniProt ID:</b>	<a href="#">P36551</a>
<b>Cytogenetics:</b>	3q11.2
<b>Domains:</b>	Coprogen_oxidas
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Porphyrin and chlorophyll metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is the sixth enzyme of the heme biosynthetic pathway. The encoded enzyme is soluble and found in the intermembrane space of mitochondria. This enzyme catalyzes the stepwise oxidative decarboxylation of coproporphyrinogen III to protoporphyrinogen IX, a precursor of heme. Defects in this gene are a cause of hereditary coproporphyria (HCP).[provided by RefSeq, Oct 2009]