

## Product datasheet for **SC317742**

### 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:	CPOX
Synonyms:	COX; CPO; CPX; HARPO; HCP
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000097, the custom clone sequence may differ by one or more nucleotides ATGGCCTTGCAGCTGGGCAGGCTGAGCTCGGGCCCTGCTGGCTCGTGGCGGGGGCGGC TGCGGAGGGCCCCGCGCCTGGTCCCAGTGCGGCGGCGAGGGCTCCGAGCCTGGTCCCAG CGCAGCGCAGCCGGACGCGTCTGCCGGCCCCCTGGCCCGCTGGCAGGAGCAGAGCCGC GGGCTGGGGCACGGCTCGACGTCGAGAGGGCCCTGGGTGGGACAGGGCTGGCCGCG GCGCTGGCGGGTGGTGGGGCTGGCCACCGCCGCTTCGGGCATGTGCAGCGGGCGGAG ATGTTGCCTAAGACCTCGGGACCGGGCCACTTCGCTGGGAGGCCGGAGGAGGAGGAG GATGAGCTGGCCACCGCTGCAGCAGCTTCATGGCCCCGCTGTGACCGACTGGGCGAG CTGCGAAGGAGGCCGGGCGACATGAAGACCAAGATGGAGCTGCTGATTCTGGAGACCCAG GCCCAGGTGTGCCAGGCTCTGGCACAGGTAGACGGGGGCGCAACTTTTCTGTGGACCGG TGGGAGAGGAAGGAAGGAGGTGGCGGCATCAGCTGTGTACTTCAAGATGGGTGTGTTTTT GAAAAGGCTGGGGTGAGCATTCTGTTGTTTCATGGAAATCTTTCAGAGGAAGCTGCAAAA CAAATGAGAAGCAGAGGAAAAGTCTGAAGACTAAAGATGGTAAATTGCCATTTTGTGCT ATGGGCGTGAGCTCTGTTATCCACCCCAAGAATCCTCATGCTCCTACTATCCATTTCAAC TACAGATACTTTGAAGTAGAAGAAGCTGATGGCAACAAGCAGTGGTGGTTTGGTGGTGA TGTGACCTCACTCCAACATACTTGAATCAAGAAGACGCTGTCCATTTTCACAGAACTCTG AAGGAGGCTTGTGACCAGCATGGTCCAGATCTCTACCCCAAATTTAAAAAATGGTGTGAT GATTACTTCTTTATAGCCCATCGTGGAGAACGGCGGGGCAATTGGTGGTATCTTTTTGAT GATCTTGACTCTCCGTCCAAGGAGGAGGTGTTTCGCTTTGTACAGAGCTGTGCCAGGGCT GTAGTTCTTCTTACATTTCCCTTGTGAAAAAGCACTGTGATGACTATTACCCCCCAG GAGAAGCTGTGGCAGCAGCTCAGAAGAGGACGGTATGTAGAATTAATCTGCTGTATGAT CGGGGCACAAAGTTTGGCCTCTTACTCCAGGATCCAGAATTGAAAGTATCTTGATGCT TTACCTTAAGTCCCGATGGGAGTACATGCATTACCCTCAGAGAATTTCAAAGAAGCT GAAATTCTGGAAGTTCTACGCCATCCAAGGGACTGGGTGCGT
Restriction Sites:	Please inquire
ACCN:	NM_000097



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<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>	<u><a href="#">NM_000097.4</a></u> , <u><a href="#">NP_000088.3</a></u>
<b>RefSeq Size:</b>	2714 bp
<b>RefSeq ORF:</b>	1365 bp
<b>Locus ID:</b>	1371
<b>UniProt ID:</b>	<u><a href="#">P36551</a></u>
<b>Cytogenetics:</b>	3q11.2
<b>Domains:</b>	Coprogen_oxidase
<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 coproporphyrinemia (HCP).[provided by RefSeq, Oct 2009]