

Product datasheet for **SC118552**

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:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000097, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTTGCAGCTGGGCAGGCTGAGCTCGGGCCCTGCTGGCTCGTGGCGCGGGCGGGCTGCGGAGGGC
CCC CGCCTGGTCCCAGTGC GGCGGGGAGGGCTCCGAGCCTGGTCCCAGCGCAGCGCAGCCGGACGCGT
CTGCCGGCCCCCTGGCCCGGCTGGCACGGAGCAGAGCCGCGGGCTGGGGCACGGCTCGACGTCGAGAGGC
GGCCCCCTGGTGGGACAGGGCTGGCCGCGGGCTGGCGGGGTTGGTGGGGCTGGCCACC GCCCTTCG
GGCATGTGCAGCGGGCGGAGATGTTGCCTAAGACCTCGGGGACCGGGCCACTTCGCTGGGAGGCCGGA
GGAGGAGGAGGATGAGCTGGCCACCCTGCAGCAGCTTCATGGCCCCGCTGTGACCGACCTGGGCGAG
CTGCGAAGGAGGCCGGGCGACATGAAGACCAAGATGGAGCTGCTGATTCTGGAGACCCAGGCCAGGTGT
GCCAGGCTCTGGCACAGGTAGACGGGGCGCAACTTTTCTGTGGACCGGTGGGAGAGGAAGGAAGGAGG
TGGCGGCATCAGCTGTGTACTTCAAGATGGGTGTGTTTTCGAAAAGGCTGGGGTGA GATTCTGTGTGT
CATGGAATCTTTCAGAGGAAGCTGCAAAACAAATGAGAAGCAGAGGAAAAGTTCTGAAGACTAAAGATG
GTAAATTGCCATTTGTGCTATGGGCGTGAGCTCTGTTATCCACCCCAAGAATCCTCATGCTCCTACTAT
CCATTTCAACTACAGATACTTTGAAGTAGAAGAAGCTGATGGCAACAAGCAGTGGTGGTTTGGTGGTGA
TGTGACCTCACTCCAACATACTGAATCAAGAAGCGCTGTCCATTTTACAGA ACTCTGAAGGAGGCTT
GTGACCAGCATGGTCCAGATCTTACCCCAAATTTAAAAAATGGTGTGATGATTACTTCTTTATAGCCCA
TCGTGGAGAACGGCGGGCATTGGTGGTATCTTTTTTGGATGATCTGACTCTCCGTCCAAGGAGGAGGTG
TTTCGCTTTGTACAGAGCTGTGCCAGGGCTGTAGTTCCTTCTTACATTCCCTTGTGAAAAGCACTGTG
ATGACTCATTACCCCCAGGAGAAGCTGTGGCAGCAGCTCAGAAGAGGACGGTATGTAGAAATTTAATCT
GCTGTATGATCGGGGCACAAAGTTTGGCCTCTTCACTCCAGGATCCAGAATTGAAAGTATCTTGATGCTT
TTACCTTA ACTGCCGATGGGAGTACATGCATTACCCTCAGAGAATCCAAAGAAGCTGAAATCTGG
AAGTTCTACGCCATCCAAGGGACTGGGTGCGTTGA
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Restriction Sites: NotI-NotI



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ACCN:	NM_000097
Insert Size:	2700 bp
OTI Disclaimer:	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).
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_000097.1 , NP_000088.1
RefSeq Size:	2728 bp
RefSeq ORF:	1065 bp
Locus ID:	1371
UniProt ID:	P36551
Cytogenetics:	3q11.2
Domains:	Coprogen_oxidas
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Porphyrin and chlorophyll metabolism
Gene Summary:	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]