

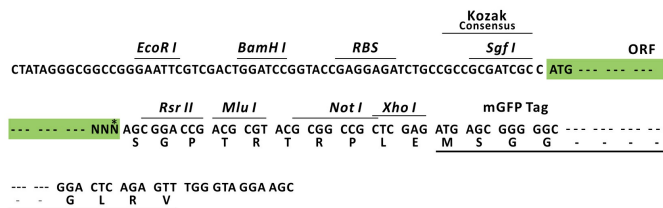
## Product datasheet for RC204033L4

### coproporphyrinogen oxidase (CPOX) (NM\_000097) Human Tagged Lenti ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | coproporphyrinogen oxidase (CPOX) (NM_000097) Human Tagged Lenti ORF Clone |
| Tag:                      | mGFP   |
| Symbol:                   | coproporphyrinogen oxidase   |
| Synonyms:                 | COX; CPO; CPX; HARPO; HCP  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC204033).             |
| Restriction Sites:        | SgfI-RsrII   |
| Cloning Scheme:           |  |

Cloning sites used for ORF Shuttling:

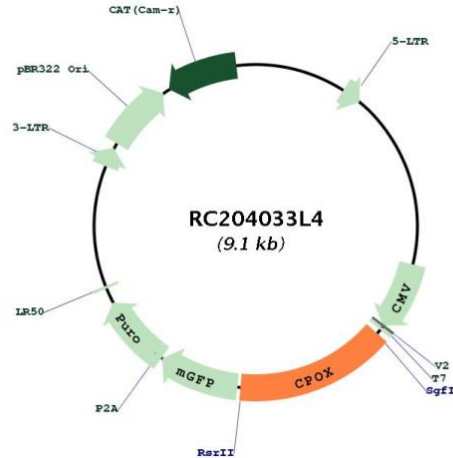


\* The last codon before the Stop codon of the ORF.



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## Plasmid Map:



ACCN: NM\_000097

ORF Size: 1362 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_000097.5](#)

RefSeq Size: 2728 bp

RefSeq ORF: 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>MW:</b>               | 50.6 kDa   |

**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 coproporphyrin (HCP).[provided by RefSeq, Oct 2009]