

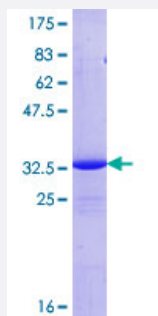
Full-Length

## COX17 (Human) Recombinant Protein (P01)

Catalog # H00010063-P01

Size 25 ug, 10 ug

### Applications



### Specification

|                                      |  |
|--------------------------------------|--|
| <b>Product Description</b>           | Human COX17 full-length ORF ( NP_005685.1, 1 a.a. - 63 a.a.) recombinant protein with GST-tag at N-terminal. |
| <b>Sequence</b>                      | MPGLVDSNPAPPESQEKKPLKPCCACPETKKARDACIIEKGEEHCGHLIEAHKECMRALGFKI  |
| <b>Host</b>                          | Wheat Germ (in vitro)  |
| <b>Theoretical MW (kDa)</b>          | 33.3   |
| <b>Interspecies Antigen Sequence</b> | Mouse (92); Rat (92)   |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>  |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow  |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.  |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                     |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.  |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                       |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — COX17

Entrez GeneID [10063](#)

GeneBank Accession# [NM\\_005694.1](#)

Protein Accession# [NP\\_005685.1](#)

Gene Name COX17

Gene Alias MGC104397, MGC117386

Gene Description COX17 cytochrome c oxidase assembly homolog (S. cerevisiae)

Omim ID [604813](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provided by RefSeq]

**Other Designations** COX17 homolog, cytochrome c oxidase assembly protein|human homolog of yeast mitochondrial copper recruitment

## Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)