

## Recombinant Human COX17, GST-tagged

Cat. No. COX17-11488H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human COX17 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-63a.a.
<b>Description</b>	<p>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.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

## GENE INFORMATION

<b>Gene Name</b>	COX17 COX17 cytochrome c oxidase assembly homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	COX17
<b>Synonyms</b>	COX17; COX17 cytochrome c oxidase assembly homolog ( <i>S. cerevisiae</i> ); COX17 (yeast) homolog, cytochrome c oxidase assembly protein , COX17 homolog, cytochrome c oxidase assembly protein ( <i>S. cerevisiae</i> ) , COX17 homolog, cytochrome c oxidase assembly protein (yeast); cytochrome c oxidase copper chaperone; human homolog of yeast mitochondrial copper recruitment; MGC104397; MGC117386;
<b>Gene ID</b>	10063
<b>mRNA Refseq</b>	NM_005694
<b>Protein Refseq</b>	NP_005685
<b>MIM</b>	604813
<b>UniProt ID</b>	Q14061
<b>Chromosome Location</b>	3q13.33
<b>Pathway</b>	Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem;

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Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;

**Function**

copper chaperone activity; copper ion binding; enzyme activator activity; metal ion binding;

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