

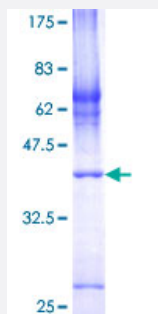
## Full-Length

# COX7A2L (Human) Recombinant Protein (P01)

Catalog # H00009167-P01

Size 25 ug, 10 ug

## Applications



## Specification

Product Description	Human COX7A2L full-length ORF ( AAH05251.1, 1 a.a. - 114 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MYKFSGFTQKLAGAWASEAYSPQGLKPVVSTEAPPIIFATPTKLTSdstvyDYAGKNKVPelQKF FQKADGVPVYLKRGLPDQMLYRTTMALTVGGTYCLIALYMASQPKNK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	38.17
Preparation Method	<a href="#">in vitro wheat germ expression system</a>
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	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 — COX7A2L

Entrez GeneID [9167](#)

GeneBank Accession# [BC005251.1](#)

Protein Accession# [AAH05251.1](#)

Gene Name COX7A2L

Gene Alias COX7AR, COX7RP, EB1, SIG81

Gene Description cytochrome c oxidase subunit VIIa polypeptide 2 like

Omim ID [605771](#)

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 similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen. [provided by RefSeq]

**Other Designations** OTTHUMP00000158765|cytochrome c oxidase subunit VII-related protein|estrogen receptor binding CpG island

## Pathway

- [Cardiac muscle contraction](#)
- [Oxidative phosphorylation](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)