

# Recombinant Full Length Human COQ2 Protein, GST-tagged

Cat. No. COQ2-1973HF    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human COQ2 full-length ORF ( AAH08804.1, 1 a.a. - 371 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	371 amino acids
<b>Description</b>	This gene encodes an enzyme that functions in the final steps in the biosynthesis of CoQ (ubiquinone), a redox carrier in the mitochondrial respiratory chain and a lipid-soluble antioxidant. This enzyme, which is part of the coenzyme Q10 pathway, catalyzes the prenylation of parahydroxybenzoate with an all-trans polyprenyl group. Mutations in this gene cause coenzyme Q10 deficiency, a mitochondrial encephalomyopathy, and also COQ2 nephropathy, an inherited form of mitochondriopathy with primary renal involvement. [provided by RefSeq, Oct 2009]
<b>Molecular Mass</b>	66.9 kDa
<b>AA Sequence</b>	MLGSRAAGFARGLRALALAWLPGWRGRSFALARAAGAPHGGDLQPPACPEPRGR QLSLSAAAVVDSAPRPLQPYLRMLRDLKPIGTWLLYLPTWSIGLAAEPGCFPDWY MLSLFGTGAILMRGAGCTINDMWDQDYDKKVRTANRPIAAGDISTFQSFVFLGGQL TLALGVLLCLNYYSIALGAGSLLLIVITYPLMKRISYWPQLALGLTFNWGALLGWSAIGK SCDPSVCLPLYFSGVMWTLIYDTIYAHQDKRDDVLIGLKSTALRFGENTKPWLSGFS VAMLGALSLVGVNSGQTAPYYAALGAVGAHLTHQIYTLDIHRPEDCWNKFISNRTL

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LIVFLGIVLGNLWKEKKTDKTKKGIENKIEN

**Applications**

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

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**

**Gene Name**

COQ2 coenzyme Q2 homolog, prenyltransferase (yeast) [ Homo sapiens ]

**Official Symbol**

COQ2

**Synonyms**

COQ2; coenzyme Q2 homolog, prenyltransferase (yeast); 4-hydroxybenzoate polyprenyltransferase, mitochondrial; 4 hydroxybenzoate polyprenyltransferase; CL640; FLJ26072; hCOQ2; COQ2 homolog; PHB:polyprenyltransferase; para-hydroxybenzoate-polyprenyltransferase, mitochondrial; para-hydroxybenzoate--polyprenyltransferase, mitochondrial; FLJ13014

**Gene ID**

27235

**mRNA Refseq**

NM\_015697

**Protein Refseq**

NP\_056512

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**MIM** 609825

**UniProt ID** Q96H96

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