

## Recombinant Human COQ4 Protein, GST-tagged

**Cat. No.** COQ4-1717H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human COQ4 full-length ORF ( AAH11895.1, 1 a.a. - 265 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a component of the coenzyme Q biosynthesis pathway. Coenzyme Q, an essential component of the electron transport chain, shuttles electrons between complexes I or II to complex III of the mitochondrial transport chain. This protein appears to play a structural role in stabilizing a complex that contains most of the coenzyme Q biosynthesis enzymes. Mutations in this gene are associated with mitochondrial disorders linked to coenzyme Q deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015] |
| <b>Molecular Mass</b>   | 56.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MATLLRPVLRRLCGLPGLQRPAAEMPLRARS DGAGPLYSHHLPTSPLQKALLAAGS<br>AAMALYNPYRHDMVAVLGETTGHR TLKVL RDQMRRDPEGAQILQERPRISTSTLDL<br>GKLQSLPEGSLGREYLRFLDVNRVSPDTRAPTRFVDDEELAYVIQRYREVHDM LHTL<br>LGMPTNILGEIVVKWFEAVQTGLPMCILGAFFGPIRLGAQSLQVLVSELIPWAVQNGR<br>RAPCVLNLYYERRWEQSLRALREELGITAPPMHVQGLA                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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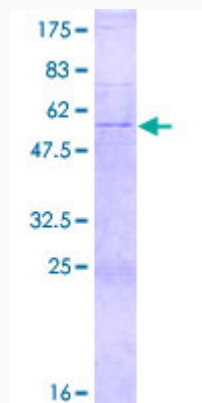
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | COQ4 coenzyme Q4 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b>  | COQ4                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | COQ4; coenzyme Q4; Coenzyme Q4; Coenzyme Q Biosynthesis Protein 4 Homolog; Ubiquinone Biosynthesis Protein COQ4 Homolog, Mitochondrial; Coenzyme Q4 Homolog (S. Cerevisiae); Coenzyme Q4 Homolog (Yeast); Coenzyme Q4 Homolog; COQ10D7; CGI-92; ubiquinone biosynthesis protein COQ4 homolog, mitochondrial; coenzyme Q biosynthesis protein 4 homolog; coenzyme Q4 homolog |
| <b>Gene ID</b>          | 51117                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>      | NM_001305942                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>   | NP_001292871                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>              | 612898                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>       | Q9Y3A0                                                                                                                                                                                                                                                                                                                                                                      |

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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