

# Recombinant Full Length Human COX6A1 Protein, GST-tagged

**Cat. No.** COX6A1-2010HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Human COX6A1 full-length ORF ( AAH07723, 1 a.a. - 109 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>    | 109 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It 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 the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq, Jul 2008]</p> |
| <b>Molecular Mass</b>   | 37.73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>    | MAVVGVS SVSRLLGRSRPQLGRPMSSGAHGEEGSARMWKTLTFFVALPGVAVSML<br>NVYLKSHHGEHERPEFIAYPHLRIRTKPPFWGDGNHTLFHNPHVNPLPTGYEDE |
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>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.                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | COX6A1 cytochrome c oxidase subunit VIa polypeptide 1 [ Homo sapiens ]                                                                                                                                                                                                     |
| <b>Official Symbol</b> | COX6A1                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | COX6A1; cytochrome c oxidase subunit VIa polypeptide 1; COX6A; cytochrome c oxidase subunit 6A1, mitochondrial; COX VIa-L; cytochrome c oxidase subunit VIA-liver; cytochrome C oxidase subunit VIa homolog; cytochrome c oxidase polypeptide VIa-liver; COX6AL; MGC104500 |
| <b>Gene ID</b>         | 1337                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_004373                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_004364                                                                                                                                                                                                                                                                  |

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| MIM | 602072 |
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| UniProt ID | P12074 |
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