

## Product datasheet for PH300957

### Cytochrome C Oxidase subunit VIb (COX6B1) (NM\_001863) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	COX6B1 MS Standard C13 and N15-labeled recombinant protein (NP_001854)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200957
Predicted MW:	10.2 kDa
Protein Sequence:	>RC200957 protein sequence Red=Cloning site Green=Tags(s)  MAEDMETKIKNYKTAPFDSRFPNQNRNCWQNYLDFHRCQKAMTAKGGDISVCEWYQRVYQSLCPTSW TDWDEQRAEGTFPGKI  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001854</a>
RefSeq Size:	590
RefSeq ORF:	258
Synonyms:	COX6B; COXG; COXVIb1; MC4DN7
Locus ID:	1340
UniProt ID:	<a href="#">P14854</a>
Cytogenetics:	19q13.12



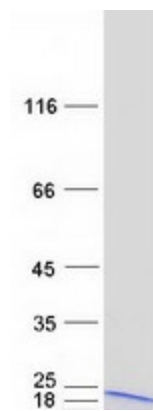
[View online »](#)

**Summary:**

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 electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIb. Mutations in this gene are associated with severe infantile encephalomyopathy. Three pseudogenes COX6BP-1, COX6BP-2 and COX6BP-3 have been found on chromosomes 7, 17 and 22q13.1-13.2, respectively. [provided by RefSeq, Jan 2010]

**Protein Pathways:**

Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Product images:**

Coomassie blue staining of purified COX6B1 protein (Cat# [TP300957]). The protein was produced from HEK293T cells transfected with COX6B1 cDNA clone (Cat# [RC200957]) using MegaTran 2.0 (Cat# [TT210002]).