

## Recombinant Human BBOX1, His-tagged

Cat. No. BBOX1-26648TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 100-387 of Human BBOX1 with N terminal His tag; 288 amino acids, 34kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	100-387 a.a.
<b>Description</b>	This gene encodes gamma butyrobetaine hydroxylase which catalyzes the formation of L-carnitine from gamma-butyrobetaine, the last step in the L-carnitine biosynthetic pathway. Carnitine is essential for the transport of activated fatty acids across the mitochondrial membrane during mitochondrial beta-oxidation.
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitute with 92 µl aqua dest.
<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	ARAKLQRELFFPECQYWGSELQLPTLDFEDVRLRYDEHAYK WLSTLKKVGIVRLTGA SDKPGEVSKLKGKRMGFLYLTFY GHTWQVQDKIDANNVAYTTGKLSFHTDYPALHH

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PPGVQLL HCIKQTVTGGDSEIVDGFNVCQKLKKNPQAFQILSST FVDFTDIGVDYC  
 DFSVQSKHKIIELEDDKGQVVRINFNN ATRDTIFDVPVERVQPFYAALKEFVDLMNSK  
 ESKFTFKMN PGDVITFDNWRLHGRRSYEAGTEISRHLEGAYADWDV VMSRLRILR  
 QRVENGN

## GENE INFORMATION

**Gene Name**

BBOX1 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1 [ Homo sapiens ]

**Official Symbol**

BBOX1

**Synonyms**

BBOX1; butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1; BBOX; gamma-butyrobetaine dioxygenase; BBH; G BBH; gamma BBH;

**Gene ID**

8424

**mRNA Refseq**

NM\_003986

**Protein Refseq**

NP\_003977

**MIM**

603312

**Uniprot ID**

O75936

**Chromosome Location**

11p

**Pathway**

Carnitine synthesis, organism-specific biosystem; Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Metabolism, organism-

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specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;

**Function**

gamma-butyrobetaine dioxygenase activity; gamma-butyrobetaine dioxygenase activity; gamma-butyrobetaine dioxygenase activity; iron ion binding; metal ion binding;

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