

## Product datasheet for **TP303156L**

### **BBOX1 (NM\_003986) Human Recombinant Protein**

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1 (BBOX1), 1 mg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC203156 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |

MACTIQKAEALDGAHLMQILWYDEEESLYPAVWLRDNCPCSDCYLDSAKARKLLVEALDVNIGIKGLIFD  
RKKVYITWPDEHYSEFQADWLKKRCFSKQARAKLQRELFPEQCQYWGSELQLPTLDFEDVLRIDEHAYKW  
LSTLKKVIVRLTGASDKPGEVSKLGKRMGFLYLTGYGHTWQVQDKIDANNVAYTTGKLSFHTDYPALHH  
PPGVQLLHCIKQTVTGGDSEIVDGFNVCQKLKKNPQAFQILSSTFVDFDIDIGVDYCDFSVQSKHKIIEI  
DDKGQVVRINFNNATRDITFDVPVERVQPFYAALKEFVDLMNSKESKFTFKMNPBGDVTDFDNWRLHGRR  
SYEAGTEISRHLEGAYADWDVMSRLRILRQVENG

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 44.5 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |
| Stability:     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| RefSeq:        | <a href="#">NP_003977</a>  |



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Locus ID: 8424

UniProt ID: [O75936](#)

RefSeq Size: 1901

Cytogenetics: 11p14.2

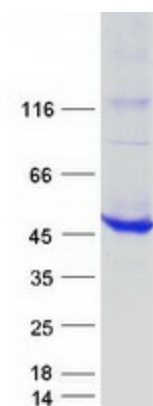
RefSeq ORF: 1161

Synonyms: BBH; BBOX; G-BBH; gamma-BBH

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Lysine degradation

### Product images:



Coomassie blue staining of purified BBOX1 protein (Cat# [TP303156]). The protein was produced from HEK293T cells transfected with BBOX1 cDNA clone (Cat# [RC203156]) using MegaTran 2.0 (Cat# [TT210002]).