

Product datasheet for **SC319674**

BBOX1 (NM_003986) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BBOX1 (NM_003986) Human Untagged Clone
Tag: Tag Free
Symbol: BBOX1
Synonyms: BBH; BBOX; G-BBH; gamma-BBH
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003986.2
GGGACTGATTTGTCATAGCAGGTAGCTGACAGCATCTACTCCTGAAGACCGAAACATGG
CTTGTACCATCCAAAAGGCAGAAGCACTTGACGGGGCTCATTTGATGCAGATCCTCTGGT
ATGATGAGGAAGAGTCTCTCTACCCAGCTGTATGGTTGAGAGACAACGTCCGTGCTCTG
ATTGCTACCTGGATTCTGCAAAAGCACGAAACTTCTAGTGGAAGCTCTTGATGTGAACA
TTGGAATTAAGGCTTGATATTTGACAGAAAAAGGTGTACATCACATGGCCCGATGAGC
ATTACAGTGAATCCAGGCTGATTGGCTGAAGAAAAGATGCTTTTCCAAGCAGGCCAGAG
CAAAGCTCCAAGAGAATTGTTTTTCCAGAATGCCAATACTGGGGCTCAGAGCTCCAGC
TACCCACTTTGGATTTTGAAGATGTTTTAAGATATGATGAACATGCATACAAGTGGCTCT
CCACCCTCAAGAAAGTAGGCATAGTAAGACTCACCGAGCATCTGACAAACCAGGAGAAG
TTTTCAAACCTGGGAAAAGGATGGGTTTCTCTATCTCACATTTTATGGACATACTTGGC
AAGTGCAAGACAAAATCGATGCAAAACAATGTGGCTTACACAACCTGGGAAGCTAAGCTTTC
ACACTGATTATCCAGCCCTCCATCATCCACCTGGGGTTACAGCTTCTTCACTGCATAAAGC
AAACAGTCACAGGGGGTATTGAGAAATGTAGATGGGTTTAAATGTGTGCCAAAAACTAA
AGAAAAATAATCCTCAGGCATCCAGATTTTGTCTCTACCTTTGTGGACTTTACAGACA
TTGGAGTGGATTACTGTGATTTTCTGTACAATCAAAACATAAAATATAGAGTTAGATG
ATAAAGGCCAAGTGGTTCGCATCAACTCAATAACGCAACTAGGGACACAATATTTGATG
TACCTGTTGAAAGAGTTCAGCCTTTTTATGCTGCTCTGAAGGAGTTTGTGACCTCATGA
ACAGCAAAGAATCCAAGTTTACCTTCAAGATGAATCCAGGTGATGATTACTTTTGATA
ACTGGCGTTACTTCATGGCCGACGTAGCTATGAAGCAGGAACCTGAGATATCCCGCCATC
TAGAAGGAGCTTATGCTGACTGGGATGTGGTCATGTCAAGGCTTCGTATCTTAAGGCAGA
GGGTGGAGAATGGAACTGAAAGTCACTGTAGATAATTTTAAATAAGATTCCAATGACCAT
ATTTTGTGAGATATGGCACATTATTCACAGACCATGATCTTTGTGATTTACATATAATTT
CCTTAACAATGAACATGTAACCTCTCTCACAAGAGTACTCTTTACTTCGTAATCATATAC
AATGTCAACTTTTTAGATGTTTACCACCTTTTTGCAAATAAAGCATCTTTCTGCTCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_003986
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_003986.2 , NP_003977.1
RefSeq Size:	1901 bp
RefSeq ORF:	1164 bp
Locus ID:	8424
UniProt ID:	O75936
Cytogenetics:	11p14.2
Protein Pathways:	Lysine degradation
Gene 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]