

Product datasheet for **MG206399**

Bhmt (BC037004) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bhmt (BC037004) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bhmt
Synonyms:	MGC46866
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206399 representing BC037004 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCAGTTGCTGGCAAGAAGGCCAAGAAGGGGATCTTAGAACGCTTAAATGCCGGAGAAGTTGTGA
TTGGAGATGGAGGATTTGTCTTTGCACTGGAAAAGAGGGGCTATGTAAAGGCTGGACCCTGGACCCAGA
AGCTGCCGTGGAGCATCCTGAGGCAGTTCGTCAGCTTCATCGGGAGTTCCTCAGAGCTGGATCGAACGTC
ATGCAGACCTTCACTTTCTATGCAAGTGAAGACAAGCTGGAAAACAGAGGAACTATGTGGCAGAGAAGA
TTTCTGGGCAGAAAGTCAACGAAGCTGCTTGTGACATTGCACGGCAAGTGGCTGATGAAGGAGACGCTTT
GGTTGCAGGAGCGTGAGCCAGACGCCTTCATACCTTAGCTGCAAGAGTGAGGTAGAAGTAAAAAGATA
TTTCGCCAACAGCTAGAGGTGTTTCATGAAGAAGAACGTGGACTTCCTCATTGCAGAGTATTTTGAACATG
TTGAAGAAGCCGTGTGGCAGTGAAGCCCTTAAAAGCATCTGGTAAGCCCGTAGCAGCTACCATGTGCAT
TGGGCCGAGGGAGATCTGCATGGCGTGCCCTGGAGAGTGTGCCGTGCGTCTGGTGAAGCAGGGCC
TCCATTGTGCGCGTGAAGTGCACCTTCGACCCAGCGTCAGCTTACAGACTGTGAAGCTCATGAAGGAGG
GTTTGGAGGCTGCGCGTTGAAAGCTTACCTGATGAGCCAGCCCTGGCCTACCATACCCCTGACTGTGG
CAACAGGGATTTATTGATCTCCAGAATCCCCCTTTGGATTGGAACCCCGAGTTGCCACTAGATGGGAT
ATTCAAAAATATGCCAGAGAGGCTACAACCTGGGGTTAGGTACATTGGCGGCTGCTGCGGATTTGAGC
CCTACCACATCAGGGCGATTGCAGAGGAGTTGGCCCCAGAAAGGGGATTTTGGCCACCGCTTCAGAAAA
ACATGGCAGCTGGGAAGTGGTTTGGACATGCACACCAAACCCTGGATCAGAGCAAGGGCCAGAAAGGAA
TACTGGCAGAATCTGCGAATAGCTTCCGGCAGGCCGTACAACCCTCCATGTCCCGGCCAGATGCTTGGG
GCGTGACTAAGGGAGCAGCCGAGCTGATGCAGCAGAAGGAGGCCACTACTGAGCAGCAGCTGAGAGAGCT
CTTTGAAAAACAAAAATTCAAGTCTGCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206399 representing BC037004
 Red=Cloning site Green=Tags(s)

MAPVAGKKAKKGILERLNAGEVVIGDGGFVFALEKRGYVKAGPWTPEAAVEHPEAVRQLHREFLRAGSNV
 MQTFTFYASEDKLENRGNVYAEKISGQKVNEAACDIARQVADEGDALVAGGVSQTPSYLSCKSEVEVKKI
 FRQQLVFMKKNVDFLIAEYFEHVVEEAVWAVEALKASGKPVAAATMCIGPEGDLHGVPPEGCAVRLVKAGA
 SIVGVNCHFDPVSLQTVKLMKEGLEAARLKAYLMSQPLAYHTPDCGKQGFIDLPEFPFGLPEPRVATRW
 IQKYAREAYNLGVRYIGGCCGFEPYHIRAIAEELAPERGFLLPASEKHGWSGSLDMHTKPWIRARARKE
 YWQNLRIASGRPYNPSMSRPDAWGVTKGAAELMQKEATTEQQLRELFEKQKFKSAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC037004

ORF Size: 1221 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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: [BC037004.1](#)

RefSeq Size: 1881 bp

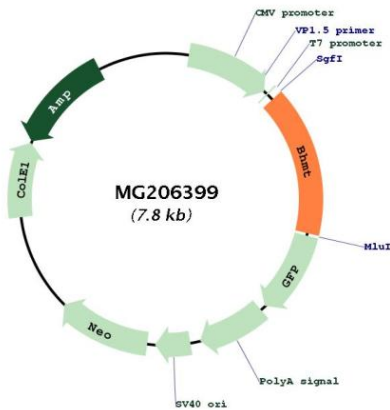
RefSeq ORF: 1223 bp

Locus ID: 12116

Cytogenetics: 13 C3

Gene Summary: Involved in the regulation of homocysteine metabolism. Converts betaine and homocysteine to dimethylglycine and methionine, respectively. This reaction is also required for the irreversible oxidation of choline.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206399