

Product datasheet for **MG206398**

Bhmt (BC093510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bhmt (BC093510) 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:	>MG206398 representing BC093510 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206398 representing BC093510
 Red=Cloning site Green=Tags(s)

MAPVAGKKAKKGILERLNAGEVVIIGDGGFVFALEKRGYVKAGPWTPEAAVEHPEAVRQLHREFLAGSNV
 MQTFTFYASEDKLENRGNVYAEKISGQKVNEAACDIARQVADEGDALVAGGVSQTPSYLSCKSEVEVKKI
 FRQQLEVFMKKNVDFLIAEYFEHVVEEAVWAVEALKASGKPVAAATMCIGPEGDLHGVPPEGCAVRLVKAGA
 SIVGVNCHFDPVSLQTVKLMKEGLEAARLKAYLMSQPLAYHTPDCGKQGFIDLPEFPFGLLEPRVATRW
 IQKYAREAYNLGVRYIGCCGFEPYHIRAIAEELAPERGFLLPASEKHGWSGSLDMHTKPWIRARARKE
 YWQNLRIASGRPNPMSRPPDAWGVTKGAAELMQQKEATTEQQLRELFEKQKFKSAQ

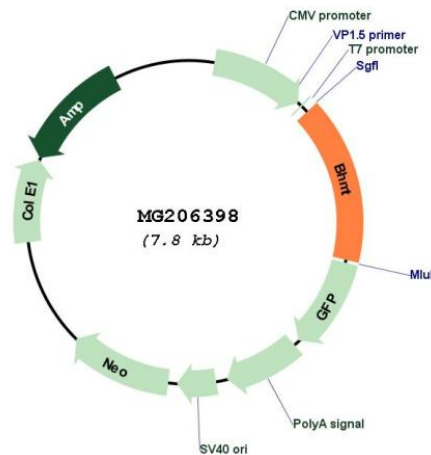
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC093510

ORF Size:	1223 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:	<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:	BC093510 , AAH93510
RefSeq Size:	1860 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]