

Product datasheet for MR206398

Bhmt (BC093510) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bhmt (BC093510) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bhmt
Synonyms:	MGC46866
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206398 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCAGTTGCTGGCAAGAAGGCCAAGAAGGGGATCTTAGAACGCTTAAATGCCGGAGAAGTTGTGA
TTGGAGATGGAGGATTTGTCTTTGCACTGGAAAAGAGGGGCTATGTAAAGGCTGGACCCTGGACCCAGA
AGCTGCCGTGGAGCATCCTGAGGCAGTTCGTCAGCTTCATCGGGAGTTCCTCAGAGCTGGATCGAACGTC
ATGCAGACCTTCACTTTCTATGCAAGTGAAGACAAGCTGGAAAACAGAGGAACTATGTGGCAGAGAAGA
TTTCTGGGCAGAAAGTCAACGAAGCTGCTTGTGACATTGCACGGCAAGTGGCTGATGAAGGAGACGCTTT
GGTTGCAGGAGGCGTGAGCCAGACGCCTTCATACCTTAGCTGCAAGAGTGAGGTAGAAGTAAAAAGATA
TTTCGCCAACAGCTAGAGGTGTTTCATGAAGAAGAACGTGGACTTCCTCATTGCAGAGTATTTTGAACATG
TTGAAGAAGCCGTGTGGCAGTGGAAAGCCTTAAAGCATCTGGTAAGCCCGTAGCAGCTACCATGTGCAT
TGGGCCCGAGGGAGATCTGCATGGCGTGCCCTGGAGAGTGTGCCGTGCGTCTGGTGAAGCAGGGCC
TCCATTGTGCGCGTGAAGTGCACCTTCGACCCAGCGTCAGCTTACAGACTGTGAAGCTCATGAAGGAGG
GTTTGGAGGCTGCGCGTGAAGCTTACCTGATGAGCCAGCCCTGGCCTACCATACCCCTGACTGTGG
CAACAGGGATTTATTGATCTCCAGAATCCCCTTTGGATTGGAACCCCGAGTTGCCACTAGATGGGAT
ATTCAAAAATATGCCAGAGAGGCTACAACCTGGGGTTAGGTACATTGGCGGCTGCTGCGGATTTGAGC
CCTACCACATCAGGGCGATTGCAGAGGAGTTGGCCCCAGAAAGGGGATTTTGGCCACCGCTTCAGAAAA
ACATGGCAGCTGGGAAGTGGTTTGGACATGCACACCAAACCCTGGATCAGAGCAAGGGCCAGAAAGGAA
TACTGGCAGAATCTGCGAATAGCTTCCGGCAGGCCGTACAACCCTCCATGTCCCGGCCAGATGCTTGGG
GCGTGACTAAGGGAGCAGCCGAGCTGATGCAGCAGAAGGAGGCCACTACTGAGCAGCAGCTGAGAGAGCT
CTTTGAAAAACAAAAATCAAGTCTGCACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206398 protein sequence
Red=Cloning site Green=Tags(s)

MAPVAGKKAKKGILERLNAGEVVI~~GDGGFVFALEKRGYVKAGPWTPEAAVEHPEAVRQLHREFLRAGSNV~~
~~MQTFTFYASEDKLENRGNVVAEKISGQKVNEAACDIARQVADEGDALVAGGVSQTPSYLSCKSEVEVKKI~~
~~FRQQLLEVFMKKNVDFLIAEYFEHVEEAVWAVEALKASGKPVAAATMCIGPEGDLHGVPPEGCAVRLVKAGA~~
~~SIVGVNCHFDPVSLQTVKLMKEGLEAARLKAYLMSQPLAYHTPDCGKQGFIDLPEFPFGLGEPVATRW~~
~~IQKYAREAYNLGVRYIGCCGFEPYHIRAIAEELAPERGFPPASEKHGWSGSLDMHTKPWIRARARKE~~
~~YWQNLRIASGRPYNPSMRPDAWGVTKGAAELMQQKEATTEQQLRELFEKQKFKSAQ~~

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC093510

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: [BC093510](#), [AAH93510](#)

RefSeq Size: 1860 bp

RefSeq ORF: 1223 bp

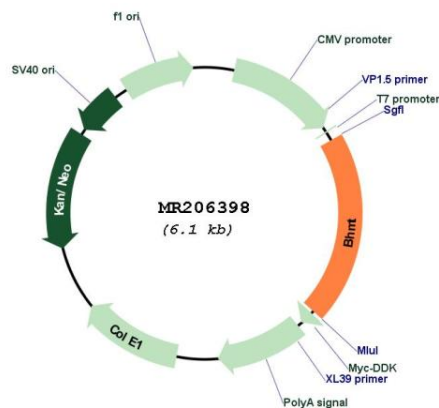
Locus ID: 12116

Cytogenetics: 13 C3

MW: 45 kDa

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 MR206398