

Product datasheet for **MC203234**

Bhmt (NM_016668) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bhmt (NM_016668) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bhmt
Synonyms:	MGC46866; MGC117976
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC037004
 CCACGCGTCCGCAGCTACCCTCCAATCCGCAGCTGTGTTACGCGCCACTCACTACACCGGAAAGATGGCA
 CCAGTTGCTGGCAAGAAGGCCAAGAAGGGGATCTTAGAACGCTTAAATGCCGGAGAAGTTGTGATTGGAG
 ATGGAGGATTTGTCTTTGCACTGGAAAAGAGGGGCTATGTAAAGGCTGGACCCTGGACCCAGAAGCTGC
 CGTGGAGCATCCTGAGGCAGTTCGTGACCTTCATCGGGAGTTCCTCAGAGCTGGATCGAACGTCATGCAG
 ACCTTCACTTTCTATGCAAGTGAAGACAAGCTGGAAAACAGAGGAACTATGTGGCAGAGAAGATTTCTG
 GGCAGAAAAGTCAACGAAGCTGCTTGTGACATTGCACGGCAAGTGGCTGATGAAGGAGACGCTTTGGTTGC
 AGGAGGCGTGAGCCAGACGCCTTCATACCTTAGCTGCAAGAGTGAGGTAGAAGTGAAAAAGATATTTCCG
 CAACAGCTAGAGGTGTTTCATGAAGAAGAAGCTGGACTTCCTCATTGCAGAGTATTTTGAACATGTTGAAG
 AAGCCGTGTGGCAGTGGAAAGCCTTAAAGCATCTGGTAAGCCCGTAGCAGCTACCATGTGCATTGGGCC
 CGAGGGAGATCTGCATGGCGTGCCTTGGAGAGTGTGCCGTGCGTCTGGTGAAAGCAGGCGCCTCCATT
 GTCGGCGTGAACCTGCACTTCGACCCAGCGTCAGCTTACAGACTGTGAAGCTCATGAAGGAGGGTTTGG
 AGGCTGCGCGTTGAAAGCTTACCTGATGAGCCAGCCCTGGCCTACCATACCCCTGACTGTGGCAAACA
 GGGATTTATTGATCTCCAGAATCCCCTTTGGATTGGAACCCGAGTTGCCACTAGATGGGATATTCAA
 AAATATGCCAGAGAGGCCCTACAACCTGGGGTTAGGTACATTGGCGGCTGCTGCGGATTTGAGCCCTACC
 ACATCAGGGCGATTGCAGAGGAGTTGGCCCGAGAAAGGGGATTTTGGCCACCGGCTTCAGAAAAACATGG
 CAGCTGGGGAAGTGGTTTGGACATGCACACCAAACCTGGATCAGAGCAAGGGCCAGAAAGGAATACTGG
 CAGAATCTGCGAATAGCTTCCGGCAGGCGGTACAACCTTCCATGTCCCGGCCAGATGCTTGGGCGGTGA
 CTAAGGGAGCAGCCGAGCTGATGCAGCAGAAGGAGGCCACTACTGAGCAGCAGCTGAGAGAGCTCTTTGA
 AAAACAAAAATCAAGTCTGCACAGTAGCCACAGGCAACAGTTTGGGGTAAATCCCTCCATGCCTGGGCC
 TCAATGTGTGCCCGAAGGAAAAGATGGCTGAAAGTCAAGTGTGTTGTTAATACCAGCCTACACCTATGA
 TTGGTCTAGTTAGACAAAATGGAATCACAATAATAGCATTTTACAGTTACAAAACCTATGTTTTAGAAA
 TTTACTTAGAAGCAAAGAAAGGAAAAGTCCACGGTAAATCCTGAATAAAATTTTCTAAGTACCTGCCGTGT
 AACAAACAGTCAACAGAAAGTCACTGCGGCAAAAGAGAAAAGTCACTAGGTGTGAGTCCCATTTTCAGGCAG
 GAGTGTAGGACACAAACCACCATAAATGTCATAGTAACCTCAGGGACCATATCATAAAGGACATAGCAAC
 CACTTTATCTAAGGTGCTGCTGGCAGTGGATCCTAAGATCTTTTGGCATGACCCTTAGAGAGAAACAT
 CGAATGCACCAGCCCTGTAACCTAACAATAACACAAAGAAGAAACAATGGACTGCTATTCTGTCTG
 CTTCTATTCCATTTCAATAAAAAATGTGCTGGTTGAAAACCTTCAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_016668

Insert Size: 1224 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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](#), [AAH37004](#)

RefSeq Size: 1881 bp

RefSeq ORF: 1224 bp

Locus ID: 12116

UniProt ID: [O35490](#)

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]