

Product datasheet for **RN210921**

Bhmt2 (NM_001014256) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bhmt2 (NM_001014256) Rat Untagged Clone
Tag: Tag Free
Symbol: Bhmt2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210921 representing NM_001014256
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCAGCCGGAGGCCACGAGTCAAGAAGGGTATCTTGGAGCGTCTGGACAGCGGGGAGGTTGTGG
TTGGGGACGGCGCTTTCTCTTCACTCTGGAAAAGAGAGGCTTTGTGAAGGCAGGACTTTGGACTCCAGA
AGCAGTGGTAGAGTATCCAAGTGCAGTTCTGTCAGCTTACACAGAATTCTTGAGAGCGGGAGCCGATGTC
TTGCAGACATTCACCTTTTCGGCTGCTGAAGACAGAATGGAAAGCAAGTGGGAAGCTGTGAATGCAGCTG
CCTGTGACCTGGCCAGGAGGTGGCTGATGGAGGGCTGCTTTGGTGGCAGGGGGCATCTGCCAGACATC
ACTGTACAAGTACCACAAGGATGAACTAGAATTA AAAACATTTTCCGACTACAGCTAGGTGTTTTTGGC
AGGAAAAATGTGGACTTCTTGATTGCAGAGTATTTTGGAGCATGTGAAGAAGCCGTGTGGCTGTGGAAG
TCTTGAGAGAGGTGGGGCACCTGTGGCTGTGACCATGTGCATCGGCCAGAGGGGGACATGCACGGCGT
GACACCGGAGAGTGTGCGGTGAGACTGTCTCGTGCAGGGGCGAACATCATTGGGGTAACTGCCGGTTT
GGGCCCTGGACCAGCTTACAGACCATGAAGCTCATGAAGGAGGGCCTCAGGGATGCCGGCCTACAAGCTC
ACCTTATGGTCCAGTGTCTGGGTTTCCACACACCGGACTGTGGCAAGGGAGGGTTTGTGGACCTTCTGA
ATATCCTTTTCGGCTGGAGCCAAGAGTTGCCACCAGATGGGATATTCAAAATACGCCAGAGAGGCCCTAC
AACCTGGGGTACAGTACATTGGCGGCTGCTGCGGATTTGAGCCCTACCACATCAGGGCCATTGCAGAGG
AGCTCGCCCCAGAAAGGGGATTTTGGCCACCAGCTTCAGAAAAACATGGCATCTGGGGAAGTGGTTTGA
CATGCACACCAAACCTGGATCAGAGCAAGGGCTAGACGGGAATACTGGGAACTCTGTTGCCAGCTTCG
GGAAGACCTTTCTGTCTTCCCTATCAAAGCCAGATGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001014256
Insert Size: 1092 bp



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| 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). |
| 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: | <u>NM_001014256.2</u> , <u>NP_001014278.2</u> |
| RefSeq Size: | 1995 bp |
| RefSeq ORF: | 1092 bp |
| Locus ID: | 365972 |
| UniProt ID: | <u>Q68FT5</u> |
| Cytogenetics: | 2q12 |
| 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 (By similarity).[UniProtKB/Swiss-Prot Function] |