

Product datasheet for **SC124281**

BHMT2 (NM_017614) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BHMT2 (NM_017614) Human Untagged Clone
Tag:	Tag Free
Symbol:	BHMT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_017614.3
 AGAGCCGCGGCACCATGGCACCTGCTGGACGCCCGGGGGCCAAGAAGGGGATTTTGGAGC
 GCCTGGAGAGTGGGGAGGTTGTGATTGGAGATGGCAGCTTTCTCATTACTCTGGAGAAGA
 GAGGCTATGTGAAGGCTGGGCTCTGGACTCCAGAGGCAGTGATAGAACACCCAGACGCAG
 TTCGTCACCTTCACATGGAATTCCTTGAGAGCAGGATCAAATGTCATGCAGACTTTTACCT
 TTTCTGCCAGTGAGGACAATATGAAAAGCAAGTGGGAAGATGTAATGCTGCTGCCTGTG
 ACCTCGCCAGGGAAGTGGCTGGCAAAGGTGATGCTTTGGTAGCAGGGGGGATCTGCCAGA
 CATCAATATACAAATACCAGAAGGATGAAGCTAGAATAAAAAACTTTTTTCGACAACAGC
 TAGAAGTTTTTGCCTGGAATAATGTGGACTTCTTGATTGCAGAGTATTTTGGACAGTTG
 AAGAAGCTGTGTGGGCTGTGGAAGTCTTAAAAGAATCAGATAGACCCGTGGCAGTTACCA
 TGTGCATAGGCCAGAGGGAGACATGCATGATATAACCCCGGAGAATGTGCTGTGAGGC
 TGGTGAAGGCAGGGGCTCCATCGTTGGCGTGAAGTCCCGCTTTGGGCCGACACCAGCT
 TGAAGACGATGGAGCTCATGAAGGAGGGTCTTGAGTGGCAGGGCTGAAAGCGCACCTCA
 TGGTGCAGCCTCTGGGGTCCACGCGCCTGACTGTGGCAAAGAGGGGTTTGTGGATCTCC
 CAGAATATCCCTTTGGACTGGAGTCCAGAGTTGCCACCAGATGGGATATTCAAAAATACG
 CCAGAGAGGCCTACAACCTGGGGTCCAGGTACATTGGCGGGTGTGTGGATTTGAGCCCT
 ACCACATCAGGGCAATTGCAGAGGAGCTGGCCCCAGAAAGGGGCTTTTTGCCACCAGCTT
 CAGAAAAACACGGCAGCTGGGAAGTGGTTTGGACATGCACACCAAAACCTGGATTAGAG
 CAAGGGCTCGAAGGGAGTATTGGGAGAATCTGCTGCCAGCTTCAGGCAGACCTTTCTGTC
 CTTTCGCTGTCAAAGCCAGACTTCTAAGGAGTAGTAAAGAAAACCTGAAATAATCGAAC
 AGGAAAAAGTTGCCCTCAAGCCTGACCTGGAACCGTTCCTCACCTTCATCCTCACCATGC
 CCTGCTATCTCCAGCTGCTGAGCAGCTGAGGTGCTGCAGCCCTTCCCTCCAGCCACA
 AGTGTGTCATATTGAGCTCCTGCTGTGGTTAAGCACTGCAACAGACTCTACCAGAGATG
 CAAAGAGAAGCGAGAGAGGCACCTTGTTCCTCAAGAACTTACTGTCCAATCATGCTGTGG
 TGCAATCCTTTGAAGATCATGAAGAATAGCCAACTTGTCTTTGAGGGTGAATTTGACAC
 TTTAAAAAATCAGAAGTCACTGAGACCCAAAGCTAGTGAATAATTCAAGTGAAGTAAAGT
 AGATACTTGAGGATGATAGAGCAACACTAAACTAAAGCAATGAGTCTGCTTTTTTTAATG
 ATTTATACAATGACTCCAAAGGCAATCCCAAAGAAAAGATGTAAGAATGTTTTGAGCAA
 TGGTAGCATTATTGAAATAAATGTTTAACTATCCAAAGGAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: NotI-NotI

ACCN: NM_017614

Insert Size: 2750 bp

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:

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: [NM_017614.3](#), [NP_060084.2](#)

RefSeq Size: 2007 bp

RefSeq ORF: 1092 bp

Locus ID: 23743

UniProt ID: [Q9H2M3](#)

Cytogenetics: 5q14.1

Domains: S-methyl_trans

Gene Summary: Homocysteine is a sulfur-containing amino acid that plays a crucial role in methylation reactions. Transfer of the methyl group from betaine to homocysteine creates methionine, which donates the methyl group to methylate DNA, proteins, lipids, and other intracellular metabolites. The protein encoded by this gene is one of two methyl transferases that can catalyze the transfer of the methyl group from betaine to homocysteine. Anomalies in homocysteine metabolism have been implicated in disorders ranging from vascular disease to neural tube birth defects such as spina bifida. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]
Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.