

## Product datasheet for **SC105861**

### **BHMT2 (AL832258) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BHMT2 (AL832258) Human Untagged Clone
Tag:	Tag Free
Symbol:	BHMT2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AL832258, the custom clone sequence may differ by one or more nucleotides

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GGAACACTGGCCAAAGGTATGTAAGATCATTTTCCCCTCTCTTCCCTCCCGTTTTTCCCTTTTGTTCC
CCTTCTCTTGGTATATAGGTCGTCCTCCAAAATACAATGCAGTGTGGGGTTGGAGCCCTTACCCCAAC
ATCCCCCAATCCAGTCATCCTGACTCCCCTGAAAATGAAAAGACAGAGACCACATTCACCTTCCCTGCA
CCTGTTACGCCTGTGTCCTGCCAGCCCACCTCCACAGACGTAAGTAACTTGGGAAAAGCACACTGTC
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AACCTGGAACAGCAATTAACACTATAGAATGCTTTTTATGCCATGTAAGGCAGCTTCTTCTGAGTTT
CCAGGCCCTTCCATGTCCTTGAGAAAATGTTAAATATAACCTCATGAACTCAGCCAGCCTTCCAGAGTCT
GAATTTGATCTACTGTGAATGAGTTCTCAGAAAACAGATGGGGTGGGAGATCAGCTCATAACAGTTGAGA
GGTGTGCAGGTTTCTATCATCAGTGTGGGAGTGGGAAAATGAACAAGACATACAGTCCCCCAGCAG
CCCTTGTGGTCTTCAAATACAATCCAAAAGTGGAAAGTTTTCTTTAGAGCAACTGTTGATCAGAAA
CTGTTGAGCAGAACTCTGCTCTTTAGAGCAGAGTTGATCAGAAACAGGTTCCGGAAAACTGTCAAATA
CTTAGTAGCCCTTCACCCACAACTGCAGGAATGTGAAGTGTGCTTAAATGTTTAAATGAACCTCAAC
AAAGCTCAGAATCACTCAGCAGATACTCACTGAGCGCTACTCTGCTGAGCAAGTGTATTCTTGAGGCT
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CCTGAAAGAAAAGCAAGAGGGCCAGGATAGCGGGGCAGAGCAAGCTGGCCAGGGTGGTGGGAAATGAGG
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TTATCAAATTGAGGAAATTAACACTAATAAAATATTACTATATAAAATATACAGTCCATATTCAGATTG
CTCCATTTGTCCTTACTTACTTTTGTGACACTTTGTTTTTCTGCTTCCAGGGTCCAATTCAAGATTACT
CTTGACATTTATTTGTCATGATATTTGCTGTTGGTAATCCTTTATTTTGGAAAGATTTCTCAGTCTTTGT
CTTTCATAACATTGACGTTTTTAAAAAGATAGCCAGTTCTTCTGTAGAATGCCTTCCGTTTGGATTGTC
TGATTTTTTTTCTCAGCAGTAGATTCAAGGTATGCATTTTGCAGGAGCACTAATAAGTGACGATGGGTC
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CTCCTAAGATAGTTTCTATCAGATTTTCCACCTGTAATGTGCCTTTTTCTGTGGTGGAGATAGCTTT
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TGAGAAGAAAAGGGCCTATAGGAAAATAGGATGGAAGCAGGAAGACCAGTTAGGAGGCTTTTGCAGTT
GTCCAGGCAAGAGATGATGATGGCAGGCACGGTGGCTCACGCCTGTAATCCCAACACGTTGGGAGGCT
GAGGTGGTGGATTGCTTGGCCAGGAGTTCAAGACCAGCCTGGACAACATGGCAAGACCCCTGTCTCT
ACAAAACATTAATAAATAGCCAGGTGTGATGGCAATATAGTAAAACCCCGTCTCTACTAAATATACAAA
AATTAGCCGGGCATACTGGTGTGCCCTTATGTCACAGCTGCTTGAAGGCTGAGGTGGGAGGATCACTT
GAGCATGGGAGGCTGAGGCTGCAGTGCAGCATGATTGCGCCACTGCACTCCGGCCTGGGTGACAGAACAA
GACCCTGTCTCAAAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AL832258 unedited</p> <pre>GTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTTATGAAGAGTGGTGA AGCCTCGGGAGGATCTGGGGGAAGAGCCTGCCAGGCAGAGGGAACAGCAGTGCAAAGCCC TGAGGTGGGAGTGTACATGGCATCTGAAAGAAAAGCAAGAGGGCCAGGATAGCGGGGGC AGAGCAAGCTGGCCAGGGTGGTGGGAAATGAGGCCTCANAAGTGGCTGGGCCAGTTGCGC AGGGCTTTGTGGCTTTTCGTTCTCAGTAAAATGGGAGACCATTACAGGGTTTTGGGCAGAG GAGTGACATAAATTTTTTCGTTATTTTAAAAATTTTCAAACCTACAGAAAAGTTACAA TAATGGTACAAAGAACCAATGTATATCCTTCACATTGATTCATCAGTTGTTAACATTTTG CCTATGCTTCTCACCTACCATACACACTTATTTTAGGGGAACAAGGTAACAAGAAGTTGC AGACTTCATGAATCTTACCCTAAAATATTTTGTATATATCTCATAAGAGCAAAGATAC TGTCTTATGTAGGTACAATGCATTTATCAAATTGAGGAAATTTAACACTAATAAAATATT ACTATATAAAATATACAGTCCATATTCAGATTGCTCCATTTGTCCTTACTTACTTTTGN GACACTTTGNTTTTCTGCTTCAGGNTCCAATTCAAGATTACTCTTGACATTTATTGNCA TGATAATTGNCTGGTTGGGAATCCTTTATNTGGAAGAGTTCTCAGTCTTTGGCTTCACT ACATTGACGTTTTTAAAAGATGCCAGGNTCTGTANAGGCCTCTCGTTTGGATGGCTGA TTTTTTTCTACAGAGATTCAAGTATGCATTTTGGCCGACACTATTATGACGAGGGTCTTT TCAA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AL832258 unedited</p> <pre>NGATACTATGNACCGCGCCGAANCTANNGATCGATTTTTTTTTTTTTTTTTTTTGGAGAC AGGGTCTTGTCTGTACCCAGGCCGGGTGCAGTGGCGCAATCATGGCTCACTGCAGCC TCAGCCTCCCATGCTCAAGTGATCCTCCACCTCAGCCTTGCAAGCAGCTGTGACTAAAG GGGCACACCAGTATGCCCGGCTAATTTTTGTATATTTAGTAGAGACGGGGTTTCACTATA TTGCCATCACACCTGGCTAATTTTTTAATGTTTTGTAGAGACAGGGGTCTTGCCATGTTG TCCAGGCTGGTCTTGAACCTCTGGGCTCAAGCAATCCACCACCTCAGCCTCCCAACGTG TTGGGATTTACAGGCGTGAGCCACCGTGCCTGCCATCATCATCTTGCCTGGACAACCT GCAAAAGCCTCCTAACTGGTCTTCTGCTTCCATCCTATTTTCCCTATAGGCCCTTTTCT TCTGCATATTTTCGACACAGTGATCCTTTTTTAAAATCCAAGTTGATTTTGCATACATCTT AAAAATAATAAATGCAAGCCAGAATCATTAAAGGATGCTATCATTAAATAACAGTTTGGT TGGGAACCTGGATAATCATACAGACTCAAAGCTATCTCCACCCAGGAAAAAGGCCATTTA CAGGTGGAAAAATCTGATAAAAACTATCCTAAGGAGAATAAAGGTAACATCCCCCACCAC CGAAGAAAACTGACAACCCGTGCCCCCTGTTTGGAGGCCCTGATAAAGAACCATCGCC ATCTATTAATGGCTCCCGCAAAAATGCCTCCCCCGGAATCTACTGGTGGGAAAAAAAAA ACGAACAATCCCAACACGAAAGGCCATTCTACACGAAAAAACTGGCCTATTTTTTTTTTAA AACACACCTAAAGTTATAAAG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AL832258
<b>Insert Size:</b>	1600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:** [AL832258.1](#)

**RefSeq Size:** 2972 bp

**RefSeq ORF:** 2972 bp

**Locus ID:** 23743

**Cytogenetics:** 5q14.1

**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]