

## Product datasheet for **SC110837**

### BHMT (NM\_001713) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BHMT (NM_001713) Human Untagged Clone
Tag:	Tag Free
Symbol:	BHMT
Synonyms:	BHMT1; HEL-S-61p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001713, the custom clone sequence may differ by one or more nucleotides

```

ATGCCACCCGTTGGGGGCAAAAAGGCCAAGAAGGGCATCCTAGAACGTTTAAATGCTGGAGAGATTGTGA
TTGGAGATGGAGGGTTTGTCTTTGCACTGGAGAAGAGGGGCTACGTAAGGCAGGACCCTGGACTCCTGA
AGCTGCTGTGGAGCACCCAGAAGCAGTTCGCCAGCTTCATCGAGAGTTCCTCAGAGCTGGCTCAAACGTC
ATGCAGACCTTCACCTTCTATGCGAGTGAAGACAAGCTGGAGAACAGGGGCAACTATGTCTTAGAGAAGA
TATCTGGGCAGGAAGTCAATGAAGCTGCTTGCACATCGCCGACAAGTGGCTGATGAAGGAGATGCTTT
GGTAGCAGGAGGAGTGAGTCAGACACCTTCATACCTTAGCTGCAAGAGTAAAAGTGAAGTCAAAAAAGTA
TTTCTGCAACAGTTAGAGGTCTTTATGAAGAAGAAGCTGGACTTCTTGATTGCAGAGATTTTGAACACG
TTGAAGAAGCTGTGTGGCAGTTGAAACCTTGATAGCATCCGGTAAACCTGTGGCAGCAACCATGTGCAT
TGGCCCAGAAGGAGATTTGCATGGCGTGCCCCCGGCGAGTGTGCAAGTGCACCTGGTGAAGCAGGAGCA
TCCATCATTGGTGTGAACTGCCACTTTGACCCACCATAGTTTAAAAACAGTGAAGCTCATGAAGGAGG
GCTTGGAGGCTGCCGACTGAAAGCTCACCTGATGAGCCAGCCCTTGGCTTACCACACTCCTGACTGCAA
CAAGCAGGGATTCATCGATCTCCAGAATTCCTTTGGACTGGAACCCAGAGTTGCCACCAGATGGGAT
ATTCAAAAATACGCCAGAGAGGCCTACAACCTGGGGGTGAGGTACATTGGCGGGTGTGTGGATTTGAGC
CCTACCACATCAGGGCAATTGCAGAGGAGCTGGCCCCAGAAAGGGGCTTTTTGCCACCAGCTTCAGAAAA
ACATGGCAGCTGGGGAAGTGGTTTGGACATGCACACCAAAACCTGGGTTAGAGCAAGGGCCAGGAAGGAA
TACTGGGAGAATCTTCGGATAGCCTCAGGCCGGCCATACAACCTTCAATGTCAAAGCCAGATGGCTGGG
GAGTGACCAAAGGAACAGCCGAGCTGATGCAGCAGAAAGAAGCCACAACCTGAGCAGCAGCTGAAAGAGCT
CTTTGAAAAACAAAAATTCAAATCACAGTAG

```



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001713 unedited  
 GTTCACATTTGTATACGACTCCTATAGGCGGCNCGCAATTCGCACCAGGGGAAGGCTCG  
 CCTAGTCGGTCCGCATCCGTGTCGACCCTGTCTGGACACCACGAAGATGCCACCCGTT  
 GGGGGCAAAAAGGCCAAGAAGGGCATCCTAGAACGTTTAAATGCTGGAGAGATTGTGATT  
 GGAGATGGAGGGTTTGTCTTTGCACTGGAGAAGAGGGGCTACGTAAGGCAGGACCCTGG  
 ACTCCTGAAGCTGCTGTGGAGCACCCAGAAGCAGTTCGCCAGCTTCATCGAGAGTTCTC  
 AGAGCTGGCTCAAACGTCATGCAGACCTCACCTTCTATGCGAGTGAAGACAAGCTGGAG  
 AACAGGGCAACTATGTCTTAGAGAAGATATCTGGCAGGAAGTCAATGAAGCTGCTTGC  
 GACATCGCCCGACAAGTGGCTGATGAAGGAGATGCTTTGGTAGCAGGAGGAGTGAGTCAG  
 ACACCTTCATACCTTAGCTGCAAGAGTGAAGTGAAGTCAAAAAAGTATTTCTGCAACAG  
 TTAGAGGCTTTTATGAAGAAGAAGCTGGACTTCTTGATTGCAGAGTATTTTGAACACGTT  
 GAAGAAGCTGTGTGGCAGTTGAAACCTTGATAGCATCCGGTAAACCTGTGGCAGCAACC  
 ATGTGCATTGGCCAGAAGGAGATTTGCATGGCGTGCCCCCGCGAGTGTGCAGTGCGC  
 CTGGTAAAGCANGAGCATTATCATTGGTGTGAACTGCCACTTTGACCCACATTAGTT  
 TANAACAGTGAACCTCATGAAAGGAGGCTTGGNAGCTTCCCCACTGAAAGCTCACCTGAT  
 GAGCCAGCCCTTGCTCACACACTTCTGACTGCACAAGCAGGGATTTCATCGATCTCCAA  
 ATTCCCATTTGGACTGGAACCCAGAGATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001713 unedited  
 NTTATCTTGCCCGCGCCGATTCTANGATCGAGTTTTTTTTTTTTTTTTTTTCTCATTG  
 CTCTTCTTTTAAAGTGAAGATTACAATTTCAAACAGCTCAAACAATTCAATAAT  
 GTTTAGAAAGCTGCATGACCTCTTTTCTAATACTGAGGGTAGTCATGTTTCTTCTAAT  
 AGTCTTGATCTTCAGGCTTGAGCTTTTGTAGGAGAGTAGATATTAATTATCAGAGAAA  
 AATATCATAGTTCTCAATCTAGGAAACCAGGCTAGAGTTTGGAGAATCTCTACTTTTTTC  
 TTATTATTTTTTAAAAGCTACCAACTAATAAAGCTCACTCTGCTCAGCCTTATGGCC  
 CAGAGGCACTAGGTGGATCCAGTGTGACTAGGATGGAGAGGGCTGAAATATCCATCTCT  
 CCTCCCCTCCTCCCATTTGGTCTATGTCTTTTACTGGTAGAAAAGTGGGTACGAAACAG  
 AAGAACTCTGAGAGCAGGACTCTGGGTATTGGATATTTATTGATCAGGTCTCATATGACT  
 GACCTACTTATAAGAATAAACTAAACAGGATGGTCTCCTTAAGTGTCTTGTAGCAATAT  
 TTTTCAAACCTGTGGATCCAAACCCAGTAGTGGGTACATAAAAATCCATTTGAAAAGTCTCA  
 ACTAGCATGTTTTATAAATGAAATAGAATGAAAAGGAATGGAACAGAAAATACTAGGATG  
 GATCACACATTTAATTTGACAGTAAGATGTGATGTGTTTTGCTGGGTCAATTATATAAAT  
 GNNGTTGTAATAANGGTCATGTCAAAGAACTTGAGCCCTTNCATAGCGCTTATCTGT  
 CCTGGCTGGTGTGAGTCTTAAGACAGTCATGTCTATCCTCTTGCTAGCTACCACTTCTT  
 CAAGTGCATTACATCTGAATACTTTTCTGTGCTGCAGNGATTTTCATATACTTTCCAGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001713

**Insert Size:**

2570 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001713.1</a> , <a href="#">NP_001704.1</a>
<b>RefSeq Size:</b>	2436 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	635
<b>UniProt ID:</b>	<a href="#">Q93088</a>
<b>Cytogenetics:</b>	5q14.1
<b>Domains:</b>	S-methyl_trans
<b>Protein Pathways:</b>	Cysteine and methionine metabolism, Glycine, serine and threonine metabolism, Metabolic pathways
<b>Gene Summary:</b>	This gene encodes a cytosolic enzyme that catalyzes the conversion of betaine and homocysteine to dimethylglycine and methionine, respectively. Defects in this gene could lead to hyperhomocyst(e)inemia, but such a defect has not yet been observed. [provided by RefSeq, Jul 2008]