

## Product datasheet for RC204661L4

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### BHMT2 (NM\_017614) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

**Product Name:** BHMT2 (NM\_017614) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: BHMT2

**Mammalian Cell** Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

E. coli Selection: Chloramphenicol (34 ug/mL)

**ORF Nucleotide** 

Sequence:

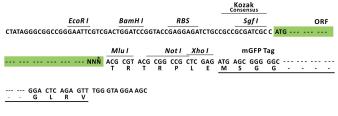
The ORF insert of this clone is exactly the same as(RC204661).

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





\* The last codon before the Stop codon of the ORF.

ACCN: NM\_017614

**ORF Size:** 1089 bp



### BHMT2 (NM\_017614) Human Tagged Lenti ORF Clone - RC204661L4

**OTI Disclaimer:** 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

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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.

5q14.1

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 017614.3</u>

 RefSeq Size:
 2651 bp

 RefSeq ORF:
 1092 bp

 Locus ID:
 23743

 UniProt ID:
 Q9H2M3

**Domains:** S-methyl trans

**MW:** 40.4 kDa

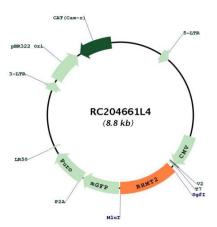
Cytogenetics:

**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]



# **Product images:**



Circular map for RC204661L4