

## Product datasheet for **TP304661L**

### **BHMT2 (NM\_017614) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human betaine-homocysteine methyltransferase 2 (BHMT2), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204661 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAPAGRPGAKKGILERLESGEVWIGDGSFLITLLEKRGYVKAGLWTPPEAVIEHPDAVRQLHMEFLRAGSNV MQTTFASSEDNMESKWEDVNAAACDLAREVAGKGDALVAGGICQTSIYKYQKDEARIKKLFRQQLEVFA WKNVDFLIAEYFEHVVEAVWAVEVLKESDRPVAVTMCIGPEGDMHDITPGECAVRLVKAGASIVGVNCRF GPDTSLKTMELMKEGLEWAGLKAHLMVQPLGFHAPDCGKEGFVDLPEYFPGLESRVATRWDIQKYAREAY NLGVRYIGGCCGFEPYHIRAIAEELAPERGFLPPASEKHGSWGSGLDMHTKPWIRARARREYWENLLPAS GRPFCPSLSKPDF</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	40.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_060084</a>
Locus ID:	23743

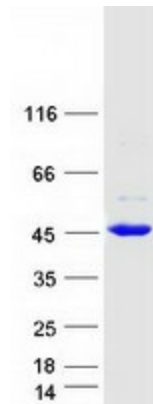


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UniProt ID: [Q9H2M3](#), [A0A024RAQ0](#)  
RefSeq Size: 2651  
Cytogenetics: 5q14.1  
RefSeq ORF: 1089

**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:



Coomassie blue staining of purified BHMT2 protein (Cat# [TP304661]). The protein was produced from HEK293T cells transfected with BHMT2 cDNA clone (Cat# [RC204661]) using MegaTran 2.0 (Cat# [TT210002]).