

## Product datasheet for **MR213217L4V**

### **Bmt2 (NM\_175312) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Bmt2 (NM_175312) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Bmt2
Synonyms:	AI666701; B630005N14Rik
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_175312
ORF Size:	1212 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR213217).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_175312.4</a> , <a href="#">NP_780521.2</a>
RefSeq Size:	4147 bp
RefSeq ORF:	1212 bp
Locus ID:	101148
UniProt ID:	<a href="#">Q8BXK4</a>
Cytogenetics:	6 A1



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**Gene Summary:**

S-adenosyl-L-methionine-binding protein that acts as an inhibitor of mTORC1 signaling via interaction with the GATOR1 and KICSTOR complexes. Acts as a sensor of S-adenosyl-L-methionine to signal methionine sufficiency to mTORC1: in presence of methionine, binds S-adenosyl-L-methionine, leading to disrupt interaction with the GATOR1 and KICSTOR complexes and promote mTORC1 signaling. Upon methionine starvation, S-adenosyl-L-methionine levels are reduced, thereby promoting the association with GATOR1 and KICSTOR, leading to inhibit mTORC1 signaling. Probably also acts as a S-adenosyl-L-methionine-dependent methyltransferase.[UniProtKB/Swiss-Prot Function]