OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC317648

BMT2 (NM_152556) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMT2 (NM_152556) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMT2
Synonyms:	C7orf60; SAMTOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317648 representing NM_152556. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGAGCCAGGGGCCGGCGGCCGAAATACTGCTCGTGCGCAGAGGGCCGGGTCCCCGAACACTCCGCCG CCCCGGGAGCAGGAGCGGAAACTGGAGCAGGAGAAGCTCTCCGGTGTGGTGAAGAGCGTCCACCGGCGG CTCCGCAAGAAGTACCGAGAAGTGGGAGATTTTGATAAGATCTGGCGAGAACACTGTGAGGATGAAGAA ACTCTTTGTGAATATGCCGTTGCAATGAAAAATTTGGCAGATAATCATTGGGCAAAAACTTGTGAGGGC GAAGGTCGTATTGAATGGTGTTGTAGTGTATGCAGAGAATATTTCCAAAATGGTGGGAAGAGAAAAGCA CTTGAGAAAGATGAAAAAAGAGCTGTACTTGCCACTAAGACCACTCCAGCCTTAAATATGCATGAGTCT TCTCAACTTGAAGGTCATTTAACCAACCTCAGCTTTACAAACCCTGAATTTATAACTGAGTTGCTACAA GCCTCAGGAAAAATCAGATTACTTGATGTTGGCAGCTGCTTTAACCCATTTCTGAAGTTTGAAGAATTT CTAACTGTTGGCATAGATATTGTACCTGCTGTAGAGAGTGTCTATAAATGTGATTTCCTGAACTTACAG CTTCAGCAACCACTCCAGCTTGCACAGGATGCTATAGATGCTTTTTTGAAGCAGCTGAAAAACCCTATT GATTCTCTTCCTGGAGAGCTTTTCCATGTGGTTGTTTTCTCTCTCCTTCTTTCTTATTTTCCATCTCCT TACCAGCGATGGATTTGCTGCAAGAAAGCCCATGAACTGTTAGTGTTAAATGGTTTATTACTAATCATC ACACCTGATTCCTCCCATCAGAACCGTCATGCTATGATGATGAAAAGCTGGAAGATTGCTATAGAGTCC CTGGGCTTTAAACGCTTCAAGTACTCAAAATTTTCACATATGCATCTGATGGCATTTAGGAAAATCTCT CTAAAAACCACAAGTGACTTGGTTAGTAGGAACTACCCAGGAATGTTATATATTCCTCAAGATTTCAAC AGTATAGAAGATGAGGAATATTCTAACCCTTCCTGCTATGTTCGATCAGATATAGAAGATGAACAACTA GCATATGGTTTCACAGAACTCCCTGATGCGCCATATGACTCAGATTCTGGAGAAAGTCAAGCCAGCTCT ATTCCTTTCTATGAGCTAGAAGACCCCATATTACTTTTAAGTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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ACCN:	NM_152556
Insert Size:	1218 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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. 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:	NM_152556.2
RefSeq Size:	3969 bp
RefSeq ORF:	1218 bp
Locus ID:	154743
UniProt ID:	Q1RMZ1
Cytogenetics:	7q31.1
MW:	46.3 kDa
Gene Summary:	S-adenosyl-L-methionine-binding protein that acts as an inhibitor of mTORC1 signaling via interaction with the GATOR1 and KICSTOR complexes (PubMed:29123071). 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 (PubMed:29123071). Upon methionine starvation, S-adenosyl-L-methionine levels are reduced, thereby promoting the association with GATOR1 and KICSTOR, leading to inhibit mTORC1 signaling (PubMed:29123071). Probably also acts as a S-adenosyl-L-methionine-dependent methyltransferase (Potential).[UniProtKB/Swiss-Prot Function]