

## Product datasheet for **TP320496M**

### BMT2 (NM\_152556) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human chromosome 7 open reading frame 60 (C7orf60), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC220496 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MEPGAGGRNTARAQRAGSPNTPPPREQERKLEQEKLSGVVKSVHRRRLRKKYREVGDFDKIWREHCEDEET  
LCEYAVAMKNLADNHWAKTCEGEGRIEWCCSVCREYFQNGGKRKALEKDEKRAVLATKTTPALNMHESQ  
LEGHLTNLSFTNPEFITELLQASGKIRLLDVGSCFNPFLKFEFLTVGIDIVPAVESVYKCDFLNLQLQQ  
PLQLAQDAIDAFKQLKNPIDSLPGELFHVVVFSLLLSYFSPYQRWICCKKAHELLVLNGLLLIITPDS  
SHQNRHAMMMKSWKIAIESLGFKRFKYSKFSHMHLMAFRKISLKTTSIDLVSRYNPGMLYIPQDFNSIEDE  
EYSNPSCYVRSIDIEDEQLAYGFTLPDAPYDSDSGESQASSIPFYELEDPIILLS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 46.1 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:** [NP\\_689769](#)

**Locus ID:** 154743



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UniProt ID: [Q1RMZ1](#)

RefSeq Size: 3969

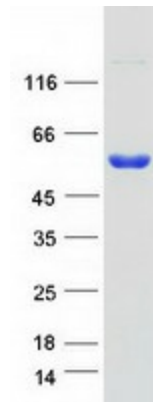
Cytogenetics: 7q31.1

RefSeq ORF: 1215

Synonyms: C7orf60; SAMTOR

**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]

### Product images:



Coomassie blue staining of purified BMT2 protein (Cat# [TP320496]). The protein was produced from HEK293T cells transfected with BMT2 cDNA clone (Cat# [RC220496]) using MegaTran 2.0 (Cat# [TT210002]).