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 PH320496

BMT2 (NM_152556) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	C7orf60 MS Standard C13 and N15-labeled recombinant protein (NP_689769)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC220496
Predicted MW:	46.3 kDa
Protein Sequence:	>RC220496 protein sequence Red=Cloning site Green=Tags(s) MEPGAGGRNTARAQRAGSPNTPPPREQERKLEQEKLSGVVKSVHRRLRKKYREVGDFDKIWREHCEDEET LCEYAVAMKNLADNHWAKTCEGEGRIEWCCSVCREYFQNGGKRKALEKDEKRAVLATKTTPALNMHESSQ LEGHLTNLSFTNPEFITELLQASGKIRLLDVGSCFNPFLKFEEFLTVGIDIVPAVESVYKCDFLNLQLQQ PLQLAQDAIDAFLKQLKNPIDSLPGELFHVVVFSLLLSYFPSPYQRWICCKKAHELLVLNGLLLIITPDS SHQNRHAMMMKSWKIAIESLGFKRFKYSKFSHMHLMAFRKISLKTTSDLVSRNYPGMLYIPQDFNSIEDE EYSNPSCYVRSDIEDEQLAYGFTELPDAPYDSDSGESQASSIPFYELEDPILLLS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_689769
RefSeq Size:	3969
RefSeq ORF:	1215
Synonyms:	C7orf60; SAMTOR
Locus ID:	154743

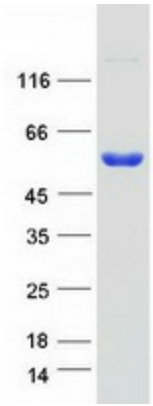
View online »

UniProt ID: Q1RMZ1

Cytogenetics: 7q31.1

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]).