

# **Product datasheet for TP302013M**

#### OriGene Technologies, Inc.

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## MTGR1 (CBFA2T2) (NM\_001039709) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human core-binding factor, runt domain, alpha subunit 2; translocated

to, 2 (CBFA2T2), transcript variant 4, 100 µg

Species: Human Expression Host: HEK293T

**Expression cDNA Clone** >RC202013 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MGFHHVGQARLELLTSGDLPALASQRAGITVGPEKRVPAMPGSPVEVKIQSRSSPPTMPPLPPINPGGPR
PVSFTPTALSNGINHSPPTLNGAPSPPQRFSNGPASSTSSALTNQQLPATCGARQLSKLKRFLTTLQQFG
NDISPEIGEKVRTLVLALVNSTVTIEEFHCKLQEATNFPLRPFVIPFLKANLPLLQRELLHCARAAKQTP
SQYLAQHEHLLLNTSIASPADSSELLMEVHGNGKRPSPERREENSFDRDTIAPEPPAKRVCTISPAPRHS
PALTVPLMNPGGQFHPTPPPLQHYTLEDIATSHLYREPNKMLEHREVRDRHHSLGLNGGYQDELVDHRLT
EREWADEWKHLDHALNCIMEMVEKTRRSMAVLRRCQESDREELNYWKRRYNENTELRKTGTELVSRQHSP
GSADSLSNDSQREFNSRPGTGYVPVEFWKKTEEAVNKVKIQAMSEVQKAVAEAEQKAFEVIATERARMEQ
TIADVKRQAAEDAFLVINEQEESTENCWNCGRKASETCSGCNIARYCGSFCQHKDWERHHRLCGQNLHGQ
SPHGQGRPLLPVGRGSSARSADCSVPSPALDKTSATTSRSSTPASVTAIDTNGL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK
Predicted MW: 63.7 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.





#### MTGR1 (CBFA2T2) (NM\_001039709) Human Recombinant Protein - TP302013M

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 001034798

 Locus ID:
 9139

 UniProt ID:
 043439

 RefSeq Size:
 7449

**Cytogenetics:** 20q11.21-q11.22

RefSeq ORF: 1845

**Synonyms:** EHT; MTGR1; p85; ZMYND3

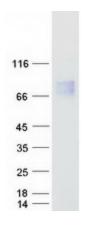
**Summary:** In acute myeloid leukemia, especially in the M2 subtype, the t(8;21)(q22;q22) translocation is

one of the most frequent karyotypic abnormalities. The translocation produces a chimeric gene made up of the 5'-region of the RUNX1 (AML1) gene fused to the 3'-region of the CBFA2T1 (MTG8) gene. The chimeric protein is thought to associate with the nuclear corepressor/histone deacetylase complex to block hematopoietic differentiation. The protein encoded by this gene binds to the AML1-MTG8 complex and may be important in promoting leukemogenesis. Several transcript variants are thought to exist for this gene, but the full-length natures of only

three have been described. [provided by RefSeq, Jul 2008]

**Protein Families:** Transcription Factors

## **Product images:**



Coomassie blue staining of purified CBFA2T2 protein (Cat# [TP302013]). The protein was produced from HEK293T cells transfected with CBFA2T2 cDNA clone (Cat# [RC202013]) using MegaTran 2.0 (Cat# [TT210002]).