

## Product datasheet for TP302013L

### 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, 1 mg |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC202013 protein sequence<br>Red=Cloning site Green=Tags(s)   |

MGFHHVQGARLELLTSGDLPALASQRAGITVGPEKRVAMPGSPVEVKIQSRSSPPTMPPLPPINPGGPR  
PVSFTPTALSNGINHSPPTLNGAPSPQRFNSNGPASSTSSALTNQQLPATCGARQLSKLKRFLTTLQQFG  
NDISPEIGEKVRTLVLALVNSTVTIEEFHCKLQEATNFPLRPFVIPFLKANLPLLQRELLHCARAQKTP  
SQYLAQHEHLLNTSIASPADSSELLMEVHGNKRPSPERREENSFDRDTIAPEPPAKRVCTISPAPRHS  
PALTVPMLNPGGQFHPTPPPLQHYTLEDIATSHLYREPKNMLEHREVRDRHHSGLNGGYQDELVDHRLT  
EREWADEWKHLHDHALNCIMEMVEKTRRSMAVLRRCQESDREELNYWKRRYNENTELRKTGTELVSRQHSP  
GSADSLNDSQREFNSRPGTGYVPVEFWKTEEAVNKVKIQAMSEVQKAVAEAEQKA FEVIATERARMEQ  
TIADVQRQAEDAFLVINEQEESTENCWNCGRKASETCSGCNIARYCGSFCQHKDWERHHRLCGQNLHGQ  
SPHGQGRPLL PVGRGSSARSADCSVPSPALDKTSATTSRSSTPASVTAIDTNGL

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.  |



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**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:** [O43439](#)

**RefSeq Size:** 7449

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

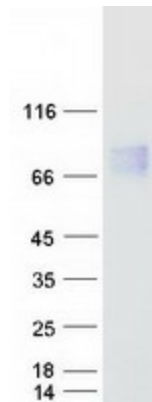
**RefSeq ORF:** 1845

**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 nature 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]).