

Product datasheet for **RC218940**

MTGR1 (CBFA2T2) (NM_001032999) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTGR1 (CBFA2T2) (NM_001032999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTGR1
Synonyms:	EHT; MTGR1; p85; ZMYND3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218940 representing NM_001032999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTAGGCGTCCCTGGAGCGGCCCTTCCAGCTTGGTCTGAGAAAAGGGTGCCAGCGATGCCTGGAT
 CGCCTGTGGAAGTGAAGATACAGTCCAGATCCTCACCTCCACCATGCCACCCCTCCACCAATAAATCC
 TGGAGGACCGAGGCCAGTGTCTTCACTCTACTGCATTAAGCAATGGCATCAACCATTCTCTCTACC
 CTGAATGGTGCCCATCACCGCCACAGAGATTCAGCAATGGTCTGCCTCTCCACATCATCTGCACTCA
 CAAATCAGCAATTGCCAGCCACTTGTGGTCTCGACAACCTCAGCAAGTTGAAACGCTTTCTTACCCTCT
 GCAACAGTTTGGCAATGACATCTCCCTGAGATTGGGGAGAAGGTGCGGACTCTTGTCTTGCAGTGGT
 AACTCAACAGTGACAATTGAGGAATCCACTGTAAGCTCCAAGAAGCCACAACTTTCCCTTCGTCCTT
 TTGTGATTCATTTCTCAAGGCCAACCTGCCCTGCTGCAGCGGAACTGCTGCACTGCGCTCGGGCGGC
 CAAGCAGACCCCATCCAGTACCTGGCTCAGCAGCAACACCTTCTGCTCAACACAAGCATTGCATCGCT
 GCTGACTCGTCAGAGTTGCTCATGGAGGTGCACGAAATGGGAAGAGGCCAGTCCAGAGAGGAGAGAAG
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 TCCTCGGCACAGTCTGCTCACTGTGCCCTCATGAATCCCGGGGCCAATCCATCCTACCCCTCCA
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 CAAGAGGAGTCCACGGAGAACTGCTGGAAGTGTGGCCGAAAGCCAGCGAGACATGCAGTGGTGAATA
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 CCTGCATGGCCAGAGCCCCACGGCCAGGGCCGGCCGCTGCTTCTGTAGGCAGGGGCTCCTCTGCCAGG
 TCCGCCGACTGCAGCGTCCCAGCCAGCCCTCGACAAGACCTCGGCAACCACATCGCGTCTCTCAACAC
 CTGCTTCTGTGACAGCTATCGACACCAACGGACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218940 representing NM_001032999
 Red=Cloning site Green=Tags(s)

MVGVPGAAAFQLGPEKRVAMPGSPVEVKIQSRSSPPTMPPLPPINPGGPRPVSFPTALSNGINHSPPT
 LNGAPSPQRFNSNGPASSTSSALTNQQLPATCGARQLSKLKRFLTTLQQFGNDISPEIGEKVRTLVLALV
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 ADSSELLMEVHNGKRSPERREENSFRDRTIAPEPPAKRVCTISPAPRHSPALTVPLMNPGGQFHPTPP
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 EMVEKTRRSMAVLRRCQESDREELNYWKRRYNTTELKRTGTELVSRQHSPPGADSLSNDSQREFNSRPG
 TGYVPVEFWKTEEAVNKVKIQAMSEVQKAVAEAEQKAFEVIATERARMEQTIADVKRQAAEDAFVINE
 QEESTENCWNCGRKASETCSGCNIARYCGSFQCHKDWERHRLCGQNLHGQSPHGQGRPLLPVGRSSAR
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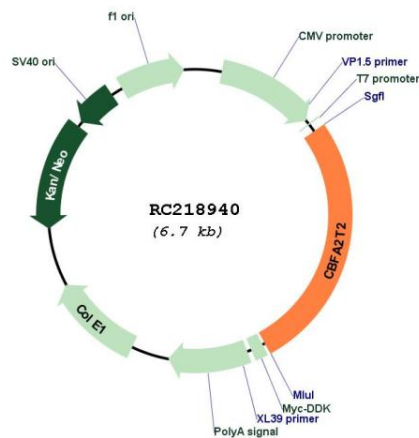
Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_h09.zip

UniProt ID: [O43439](#)
Cytogenetics: 20q11.21-q11.22
Protein Families: Transcription Factors
MW: 65.7 kDa

Gene 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]

Product images:



Circular map for RC218940