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Product datasheet for TL314181

MTGR1 (CBFA2T2) Human shRNA Plasmid Kit (Locus ID 9139)

Product data:

Product Type:	shRNA Plasmids
Product Name:	MTGR1 (CBFA2T2) Human shRNA Plasmid Kit (Locus ID 9139)
Locus ID:	9139
Synonyms:	EHT; MTGR1; p85; ZMYND3
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	CBFA2T2 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 9139). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<u>NM 001032999</u> , <u>NM 001039709</u> , <u>NM 005093</u> , <u>NM 175864</u> , <u>NM 001039709.1</u> , <u>NM 001032999.1</u> , <u>NM 001032999.2</u> , <u>NM 005093.1</u> , <u>NM 005093.2</u> , <u>NM 005093.3</u> , <u>NM 175864.1</u> , <u>BC040344</u> , <u>BC040344.2</u> , <u>BC015066</u> , <u>BC016298</u> , <u>NM 001032999.3</u>
UniProt ID:	<u>O43439</u>
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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u> . If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u> .



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CRIGENE MTGR1 (CBFA2T2) Human shRNA Plasmid Kit (Locus ID 9139) – TL314181

Performance Guaranteed: OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

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