

## **Product datasheet for TL510453**

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## **Cbfa2t2 Mouse shRNA Plasmid (Locus ID 12396)**

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** Cbfa2t2 Mouse shRNA Plasmid (Locus ID 12396)

**Locus ID:** 12396

Synonyms: A430091M07; C330013D05Rik; Cbfa2t2h; MTGR1

Vector: pGFP-C-shLenti (TR30023)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell Puromycin

Selection:

Format: Lentiviral plasmids

**Components:** Cbfa2t2 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 12396).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.

RefSeq: BC064679, NM 001285446, NM 009823, NM 172860, NM 009823.1, NM 172860.1,

NM 172860.2, NM 001285446.1, BC138410, BC145266, BC145679

**UniProt ID:** <u>070374</u>

Summary: Transcriptional corepressor which facilitates transcriptional repression via its association with

DNA-binding transcription factors and recruitment of other corepressors and histone-

modifying enzymes. Via association with PRDM14 is involved in regulation of embryonic stem cell (ESC) pluripotency. Involved in primordial germ cell (PCG) formation (PubMed:27281218). Stabilizes PRDM14 and OCT4 on chromatin in a homooligomerization-dependent mannerCan repress the expression of MMP7 in a ZBTB33-dependent manner (By similarity). Through heteromerization with CBFA2T3/MTG16 may be involved in regulation of the proliferation and the differentiation of erythroid progenitors by repressing the expression of TAL1 target genes (PubMed:19799863). Required for the maintenance of the secretory cell lineage in the small intestine (PubMed:16227606). Can inhibit Notch signaling probably by association with RBPJ and may be involved in GFI1-mediated Paneth cell differentiation (PubMed:25398765).

[UniProtKB/Swiss-Prot Function]

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>.







## 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).