

Product datasheet for **TF514017**

Kdm2b Mouse shRNA Plasmid (Locus ID 30841)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Kdm2b Mouse shRNA Plasmid (Locus ID 30841)
Locus ID:	30841
Synonyms:	Cxxc2; Fbl10; Fbxl1; Fbxl10; Jhdm1b; PCCX2
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Kdm2b - Mouse, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 30841). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	BC057622 , BC065090 , NM_001003953 , NM_001005866 , NM_013910 , NM_013910.2 , NM_001003953.1 , NM_001003953.2 , NM_001005866.1 , BC068239
UniProt ID:	Q6P1G2
Summary:	The protein encoded by this gene is a H3K36-specific histone demethylase, which contains an N-terminal jumonji C domain, a CxxC zinc finger domain, a plant homeodomain finger, an F-box, and eight leucine-rich repeats. Amongst its demonstrated functions, this protein plays roles in the suppression of premature cellular senescence, leukemia maintenance and development, maintenance of mouse embryonic stem cell pluripotency, and induced pluripotent stem cell generation. Mice homozygous for a targeted deletion of the zinc finger domain display embryonic lethality with development ceasing at approximately 7 to 8 days post coitum, demonstrating an essential role in early development. A pseudogene of this gene is found on chromosome 4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]
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 techsupport@origene.com . If you need a special design or shRNA sequence, please utilize our custom shRNA service .



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**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).