

Product datasheet for MR217278L3

Kdm2b (NM_001005866) Mouse Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm2b (NM_001005866) Mouse Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm2b
Synonyms:	Cxxc2; E430001G17; Fbl10; Fbxl10; Jhdm1b; mKIAA3014; PCCX2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR217278).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF.

ACCN:	NM_001005866
ORF Size:	3909 bp



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OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001005866.1 , NP_001005866.1
RefSeq Size:	5026 bp
RefSeq ORF:	3912 bp
Locus ID:	30841
Cytogenetics:	5 F
Gene 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]

