

Product datasheet for **MC203452**

Kdm2b (NM_013910) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm2b (NM_013910) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm2b
Synonyms:	Cxxc2; Fbl10; Fbxl1; Fbxl10; Jhdm1b; PCCX2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC057622

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GGCGCGGGTGGCGGCGGCGCTCCCTCCTCGCCGCGGGAGCCCGAGCGCTAGCCAGGGTGGAGCCGAG
CCTGCTCCTGCGGGCGGCGGCGCTGCTCCAGCCATGTCAGCGCGCGGAGGCTGGGCCACCATGA
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GGTATCATCCGGCGACAGCCTGTCTCCCTTGACCTCAGTTGGACCAACATCTCCAAGAAGCAGCTGAGTT
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AACAAATTGTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** Ascl-NotI
- ACCN:** NM_013910
- Insert Size:** 2331 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:**
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:** [BC057622](#), [AAH57622](#)
- RefSeq Size:** 3545 bp
- RefSeq ORF:** 2331 bp

Locus ID:	30841
UniProt ID:	Q6P1G2
Cytogenetics:	5 F
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks exons in the 5' UTR and 5' coding region and uses an alternate 5' terminal exon compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.</p>