

## Product datasheet for MC203967

### Kdm4c (NM\_144787) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm4c (NM_144787) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm4c
Synonyms:	2410141F18Rik; AA517467; Gasc1; Jmjd2c
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC020180

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CCCACGCGTCCGCGCCCCGTGCGCGTGCAGCGAACAGCTGTCACCCAGTGCAGAACAAAGTCTTCCAAA
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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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**Restriction Sites:**

RsrII-NotI

**ACCN:**

NM\_144787

**Insert Size:**

3165 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:** [BC020180](#), [AAH20180](#)

**RefSeq Size:** 4231 bp

**RefSeq ORF:** 3165 bp

**Locus ID:** 76804

**UniProt ID:** [Q8VCD7](#)

**Cytogenetics:** 4 C3

**Gene Summary:** Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript but encodes the shorter isoform (1).