

Product datasheet for **MC221893**

Kdm1b (NM_172262) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm1b (NM_172262) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm1b
Synonyms:	4632428N09Rik; AI482520; Aof1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221893 representing NM_172262
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCATCTCGAGGGAGGTCAAAGAAGAGAAGCAATTTGGAGCTTTCTCCTGATAACCTGCCTTTGA
 GGAGCTCTGGGCGCAGGCAAAGAAGAAAGCAGTAGAGATCCCGATGAGGATGAAGATGGTTTCGTCGGA
 GAAGAAGTACCGAAATGTGAAAAGGCAGGCTGTACGGCGGCGTACCCTGTGTGCTTTGCAAGCGCTTCT
 GAAAGATGTGCCAAAAATGGTTACACCTCCCGATGGTATCACCTTTCTGTGGGGAACACTTCTGCAATG
 AATGCTTTGACCACTACTACAGAAGCCACAAGATGGGTATGACAAATACAGTGCATGAAAAAGAGTGTG
 GACCAGCAACGGCAAGACGGAGCCAAGCCCAAGGCGTTCATGGCAGACCAGCAGCTGCCCTACTGGGTG
 CAGTGCACAAAACCCGAGTGTGAAAGTGGAGGCAGCTGACCAAGGAGATCCAGCTTACTCCACACATGG
 CGAGGACTTACCCTGTGGCATGAAGCCAAATACTATTACCAAGCCTGACACCCCGATCATTGTTCTTT
 CCCCAGGATCTGAGAGTGTGGAAGTTTCCAACCACTGGTGGTACCCCATGCTCATCCAGCCTCCGTTG
 CTGAAGGACAGTGTGGCAGCACCCTGCTTTCTGCCTACTACCCGACTGCGTTGGCATGAGCCCTCCT
 GCACCAGCACACATCGTGCCACCGTACAGCTGTACCACAACCACCGGAGTGGCAGCCCGGGGAGAT
 GGAGCCCTCCAAGGCAGCCCTCTTCACTTGTCTAGGCATGAACCGGTAATCCAGCCGTTTACCAG
 CCCAACGAGTGTGGAAAGCGCTGTGCGTGGAGCCAGACGTGATGGAGCTGGATGAGCTCTACGAGTTCC
 CAGAGTATTCGCGGGACCCACCATGTACCTGGCTTTGAGAACTCATCCTCGCACTGTGGTACACAAA
 CTGCAAAGAAGCTCTACCCCTCAGAAGTGCATTTCCACATCATTGTCCGGGCTTGTCCGCATCAGA
 TCGTTCAGGAAGTGGAGAGGATCTTTACTTTCATGACGAGGAAAGGCCATCAACACAGGCTTCTCA
 CGGTGGCAGCCGCCAGCATCTTCTTAAACACTACCAATAAATCTGTTCTGGTTGGGCTGG
 TCCAGCAGGCTTAGCAGCTGCTAGGCAACTGCATAACTTTGGGATGAAGGTGACTGTCTGGAAGCCAAA
 GACCGGATTGGAGCCGAGTATGGGATGACAAGTCTTTAAAGGCGTGGTAGTAGGAAGGAGCCCAAGA
 TTGTCAATGGCTGATTAATAAACCAGTAGCACTAATGTGTGAGCAACTTGGCATCAGCATGCGTAAGTT
 GGGAGAGAGATGTGACTTAATTCAGGAAGTGGACGGATAACTGACCCCACTGTTGACAAACGCATGGAC
 TTTTATTTAATGCTCTCTTGGATGTTGTCTCTGAGTGGAGGAAGGATAAGACTCTGCTCCAAGATGTC
 CTTTAGGAGAGAAGATAGAGGAGATCTACCGAGCTTTTGTGAAGGAGTCTGGCATCCAGTTCAGCGAGCT
 GGAGGGACAGGTGCTGCAGTTCACCTGAGTAACCTGGAGTATGCTTGTGGCAGCAGCCTGCACCAGGTG
 TCTGCTCGCTCCTGGGATCACAATGAATCTTTGCCAGTTTGTGGTGACCATACCCTCCTCACACCAG
 GCTACTCCAATCATTGAGAACTGGCTGAAGGACTAGACATTCGACTCAAATCCTCAGTGCAAAGTAT
 AGATTATACTGGAGATGAAGTGCAGTTACCACGACAGATGGTATGGGGCATTCTGCACAAAAGGTGTTA
 GTCAGTGTGCCATTGGCCATACTACAGAGAGGTGCCATCCAGTTAATCCACCATGTCAGAAAAGAAGA
 TGAAAGCCATCAACAGCTTGGGTGCAGGCATCATTGAAAAGATTGCCTTGCGAGTTTCCATATAGATTTTG
 GGACAGTAAAGTTCAAGGAGCTGACTTTTTTGGCCATGTTCTCCAGTGCAGCCAACGAGGCCTCTTC
 GCTGTATTCTATGACATGGACTCTCAGCAGAGTGTGCTGATGTCGGTGTACACAGGGAGGCAGTGGCGT
 CCCTCAGGACCATGGATGACAAGCAGGTGCTGCAGCAGTGCATGGGCATCCTTCGGGAGCTGTTCAAGGA
 GCAGGAGATCCCAGAACCACAAAAGTATTTTGTACACGGTGGAGCACAGAGCCATGGATCCAGATGGCA
 TATAGTTTCGTGAAGACCTTTGGAAGTGGCGAGGCTATGATATTATTGCTGAAGAAAATACAAGGAAGT
 TCTTTTTTGTGGTGGGCAACAAACAGGCATTTCCACAAACTGTTACTGGGGCATATTTAAGTGGTGT
 ACGAGAAGCAAGCAAGATTGCAGCCTTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172262
Insert Size: 2481 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:	<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_172262.3 , NP_758466.1
RefSeq Size:	4987 bp
RefSeq ORF:	2481 bp
Locus ID:	218214
UniProt ID:	Q8CIG3
Cytogenetics:	13 A5
Gene Summary:	Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Required for de novo DNA methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-, di- or tri-methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri-methylated 'Lys-36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4. [UniProtKB/Swiss-Prot Function]