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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCATCTCGAGGGAGGTCAAAGAAGAGAAGCAATTTGGAGCTTTCTCCTGATAACCTGCCTTTGA
GGAGCTCTGGGCGGCAGGCAAAGAAGAAAGCAGTAGAGATCCCGGATGAGGATGAAGATGGTTCGTCGGA
GAAGAAGTACCGGAAATGTGAAAAGGCAGGCTGTACGGCGGCGTACCCTGTGTGCTTTGCAAGCGCTTCT
GAAAGATGTGCCAAAAATGGTTACACCTCCCGATGGTATCACCTTTCCTGTGGGGAACACTTCTGCAATG
AATGCTTTGACCACTACTACAGAAGCCACAAAGATGGGTATGACAAATACAGTGCATGGAAAAGAGTGTG
GACCAGCAACGGCAAGACGGAGCCAAGCCCCAAGGCGTTCATGGCAGACCAGCAGCTGCCCTACTGGGTG
CAGTGCACAAAACCCGAGTGTGGAAAGTGGAGGCAGCTGACCAAGGAGATCCAGCTTACTCCACACATGG
CGAGGACTTACCGCTGTGGCATGAAGCCAAATACTATTACCAAGCCTGACACCCCCGATCATTGTTCTTT
CCCCGAGGATCTGAGAGTGCTGGAAGTTTCCAACCACTGGTGGTACCCCATGCTCATCCAGCCTCCGTTG
CTGAAGGACAGTGTGGCAGCACCGCTGCTTTCTGCCTACTACCCCGACTGCGTTGGCATGAGCCCCTCCT
GCACCAGCACACATCGTGCCACCGTCACAGCTGCTACCACAACCACCGGCAGTGCCAGCCCGGGGGAGAT
GGAGCCCTCCAAGGCAGCCCCCTCTTCACTTGTCCTAGGCATGAACCGGTACTTCCAGCCGTTCTACCAG
CCCAACGAGTGTGGGAAAGCGCTGTGCGTGAGGCCAGACGTGATGGAGCTGGATGAGCTCTACGAGTTCC
CAGAGTATTCGCGGGACCCCACCATGTACCTGGCTTTGAGAAACCTCATCCTCGCACTGTGGTACACAAA
CTGCAAAGAAGCTCTCACCCCTCAGAAGTGCATTCCCCACATCATTGTCCGGGGCCTTGTCCGCATCAGA
TGCGTTCAGGAAGTGGAGAGGATTCTTTACTTCATGACGAGGAAAGGCCTCATCAACACAGGCGTTCTCA
CGGTGGCAGCCGGCCAGCATCTTCTTCCTAAACACTACCACAATAAATCTGTTCTGGTTGTTGGGGCTGG
TCCAGCAGGCTTAGCAGCTGCTAGGCAACTGCATAACTTTGGGATGAAGGTGACTGTCCTGGAAGCCAAA
GACCGGATTGGAGGCCGAGTATGGGATGACAAGTCCTTTAAAGGCGTGGTAGTAGGAAGAGGACCCCAGA
TTGTCAATGGCTGTATTAATAACCCAGTAGCACTAATGTGTGAGCAACTTGGCATCAGCATGCGTAAGTT
GGGAGAGAGATGTGACTTAATTCAGGAAGGTGGACGGATAACTGACCCCACTGTTGACAAACGCATGGAC
TTTCATTTTAATGCTCTCTTGGATGTTGTCTCTGAGTGGAGGAAGGATAAGACTCTGCTCCAAGATGTCC
CTTTAGGAGAGAAGATAGAGGAGATCTACCGAGCTTTTGTGAAGGAGTCTGGCATCCAGTTCAGCGAGCT
GGAGGGACAGGTGCTGCAGTTCCACCTGAGTAACCTGGAGTATGCTTGTGGCAGCAGCCTGCACCAGGTG
TCTGCTCGCTCCTGGGATCACAATGAATTCTTTGCCCAGTTTGCTGGTGACCATACCCTCCTCACACCAG
GCTACTCCACTATCATTGAGAAACTGGCTGAAGGACTAGACATTCGACTCAAATCTCCAGTGCAAAGTAT
AGATTATACTGGAGATGAAGTGCAGGTTACCACGACAGATGGTATGGGGCATTCTGCACAAAAGGTGTTA
GTCACTGTGCCATTGGCCATACTACAGAGAGGTGCCATCCAGTTTAATCCACCATTGTCAGAAAAGAAGA
TGAAAGCCATCAACAGCTTGGGTGCAGGCATCATTGAAAAGATTGCCTTGCAGTTTCCATATAGATTTTG
GGACAGTAAAGTTCAAGGAGCTGACTTTTTTGGCCATGTTCCTCCCAGTGCCAGCCAACGAGGCCTCTTC
GCTGTATTCTATGACATGGACTCTCAGCAGAGTGTGCTGATGTCGGTGATCACAGGGGAGGCAGTGGCGT
CCCTCAGGACCATGGATGACAAGCAGGTGCTGCAGCAGTGCATGGGCATCCTTCGGGAGCTGTTCAAGGA
GCAGGAGATCCCAGAACCCACAAAGTATTTTGTCACACGGTGGAGCACAGAGCCATGGATCCAGATGGCA
TATAGTTTCGTGAAGACCTTTGGAAGTGGCGAGGCCTATGATATTATTGCTGAAGAAATACAAGGAACTG
TCTTTTTTGCTGGTGAGGCAACAAACAGGCATTTCCCACAAACTGTTACTGGGGCATATTTAAGTGGTGT
ACGAGAAGCAAGCAAGATTGCAGCCTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172262

Insert Size: 2481 bp

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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:	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]

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