

Product datasheet for **MC217212**

Kdm4d (NM_173433) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm4d (NM_173433) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kdm4d
Synonyms:	4932416A15; Jmjd2d
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217212 representing NM_173433
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGACGAAGTCCACATGTGCTCAGAATCCAAATTGCAGCATAATGATATTTCTGCCAACCAAGAAG
AGTTTAATGATTTTGACAAATACATTGCTTACATGGAGTCCCAAGGGGCACACCGAGCTGGACTGGCCAA
GGTCATCCCAACAAAAGAATGGAGGGCCAGGCAGTCTTATGACAATATCAGCAACATCTTAAATAGCAACT
CCCCTGCAGCAAGTGGTCTCTGGGCAGGCAGGCGTGTTCACCCAATACCATAAGAAGAAGAAAGGCATGA
CAGTGGGGGAGTACCGTGAGCTGGCCAACAGCAAAAAGTACCAGACCCCGCCACACCTGGATTTTGAAGA
TTTGGAGCGAAAATACTGGAAGAATCGCCTGTATGAGTCAACGATTTTATGGTGTGACGTGACGCGGCTCC
CTGTTTGTAGGGAAAGACTCAACAGTGAATGTGGGTACCTGGGAACAATTCAAGACCTATTGGAACAGG
AATGTGGCATAGTGATTGAGGGCGTCAACACGCCCTACCTGTACTTTGGCATGTGAAGACCACCTTTGC
GTGGCACACGGAGGACATGGACCTGTACAGTATCAACTACCTACACTTTGGGCAGCCCAAGACCTGGTAT
GCTGTGCCCCCTGAGCATGGCAGGCGCCTGGAGCGCCTGGCCAGGGAACCTTCCCTGGCAGCTCCCAGG
GCTGCCAGGCCTTCTGAGGCACAAGGTGGCGCTCATCTCGCCCACTGTGCTTAAGGAGAATGGCATCCC
CTTTGGTGCATCACCCAGGAGGCTGGGGAGTTTCAATGGTACCTTTCCCTATGGTACCACGCGGGCTTC
AACCATGGCTTCAACTGCGCAGAGGCCATCAATTTTGCACCCCAAGGTGGATTGACTATGGCAAGGTGG
CATCTCAGTGCAGCTGTGGGGAGGCCAGGGTGAGCTTCTCCATGGACGCCTTTGTGAGGATCTTGCAGCC
TGAGCGATATGAAGTGTGAAACGTGGCCAAGATCAGGCAGTTGTGGACCACACAGAGACTATGGTGTCT
ACCAGTCAGGAGCTCACCAACCGCGGGTGACCAAGCACCAAGAAAACTTGGGGCTTGAAGCGTCTCC
GGCTTCGCCAGGTCTCAGATCTCTTCTGCCTATAGCCACGGTAAGTAACGTTCCCTGCAACATGCAGGT
GTGCCACACTCCAGGCAACCATCAGATGTGAAAGGTGATGATGTCCAGAAGTCTGACTCAGCCAGAGCC
TACCACATCCTCTGAGTCTGCCTTCTTCTGGTACATGTCAACTAGAAGATGTAGTCTTGGTCTGTCGTC
CTTGTGAAGTACAGGAGCTCAGGAGTCTCCAATGGAGCTCCAGTCAAGAGGCAACTCCAGCAGGCAGAGA
TGACACAAGCCCCAGTCCAGAGCTTCAGCCCCAGGCTGTGAGTGGAGACTTAATAGTCGACTCAGGACTT
GTGAACCTGGCCACAGCATCTTATGACAGCTTCTGAAGGGGGATTGACCTCCGACCCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173433

Insert Size: 1533 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: [NM_173433.2](#), [NP_775609.2](#)

RefSeq Size: 2662 bp

RefSeq ORF: 1533 bp

Locus ID: 244694

UniProt ID: [Q3U2K5](#)

Cytogenetics: 9 A2

Gene Summary: Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Demethylates both di- and trimethylated H3 'Lys-9' residue, while it has no activity on monomethylated residues. Demethylation of Lys residue generates formaldehyde and succinate (By similarity).[UniProtKB/Swiss-Prot Function]