

Product datasheet for **RN202547**

Kdm4d (NM_001079712) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm4d (NM_001079712) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kdm4d
Synonyms:	MGC156756
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN202547 representing NM_001079712
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGACTAAGTCCACCTGTGCTCAGAATCCAAATTGCAGCATAATGATATTTTCGTCACCAAGAAAG
 AGTTTAAACGACTTTGACAAATACATCGCCTACATGGAGTCCCAAGGGGCACACAGAGCTGGACTGGCCAA
 GGTTCATCCCGCCAAAAGAATGGAGGGCCAGGCAGTCTTATGACAATATCAGTAACATCTTAAATAGCAACT
 CCCCTGCAGCAAGTAGTCTCCGGGCAGGCAGGTGTGTTCACTCAATACCATAAGAAGAAGAAAGCCATGA
 CAGTTGGGCAGTACCGGCACCTGGCCAACAGTAAAAATACCAAACCCACCACACTGGATTTTGAAGA
 TTTGGAGAGAAAATACTGGAAGAATCGCCTGTATGAGTCACCAATTTATGGTGTGACGTGAGTGGCTCC
 CTGTTTGTAGGGAAAGACTCAACAGTGAATGTGGGCCACCTGGGAACAATCAAGACCTATTGGAACAGG
 AATGCGGCATAGTGATTGAGGGCGTCAACACGCCCTACCTGTACTTTGGCATGTGAAGACCTCCTTTGC
 GTGGCACACGGAGGACATGGACCTGTACAGTATCAACTACCTGCACCTTTGGACAGCCCAAGACCTGGTAT
 GCTGTACCCCTGAGCATGGCAGGCGCCTGGAGCTCCTAGCCAAGGAACTCTCCAGGCAGCTCCAGG
 GCTGCCAGGCCTTCTGAGGCACAAGGTGGCGCTCATCTCACCCACTGTGCTCAAGGAGAATGGCATCCC
 CTTTGGTGAATCACCCAGGAGGCTGGGGAGTTTCAATGGTACCTTTCCCTATGGTACCACGCGGGCTTC
 AACCATGGCTTCAACTGTGCAGAAGCCATCAATTCGCCACGCCGAGGTGGATTGACTATGGCAAGGTGG
 CATCTCAGTGCAGCTGTGGGGAGGCCAGGGTGAAGTCTCCATGGATGCCTTTGTGAGGATCCTGCAGCC
 TGAGCGATATGAGATGTGGAAACGAGGTCAAGATCAGGCAGTTGTGGACCACACAGAGGCTATGGGGCT
 ACCAGTCAGGAGCTCACCACTGGCGGGTGTCCAGGCACCAAGAAAACTTGGGGCTGAAGCATCTCC
 GGCTTCGCCAGGTTTACGCTGTCTTCTGCCTGTAGCCACTGACAGTAACATTGCCAACACACCCAGAT
 GTGCCACACTCCAGGCAAGCAGCAGATTTCGAAAAGGTGATGAGGTCCAGGAGTCTGACCCAGCCATAGCC
 CCACCATATCCTCTGGGTCTATCTTCTCCTGGCCACATGTCAACTGGAACACGTGGTCTTGGTCTGCGCC
 CTTGTGAAGTCCAGGAGTCCAGGAGTCCACCAATGGAGCTCCAGTCAAGAGGCGACTTCCAGAAGGCAGAGA
 TGACAGAAGTCCAGCCAGAGCTTCCAGTCCAGTCCGTGACTGGAGACTTAATAGTCAACTCAGACCTT
 GTAATCTGGGCCACAGCATCTGTGACAGCTTCTGAAGGGGGATTGACCTCTGACCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001079712
- 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_001079712.1](#), [NP_001073180.1](#)

RefSeq Size: 2357 bp

RefSeq ORF: 1533 bp

Locus ID: 689582

UniProt ID: [A1A5Q5](#)

Cytogenetics: 8q12

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]