

## Product datasheet for **MR218790**

### **Kdm4d (NM\_173433) Mouse Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>MR218790 representing NM\_173433  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGACGAAGTCCACATGTGCTCAGAATCCAAATTGCAGCATAATGATATTTTCGTCACCAAAAGAAG  
 AGTTTAATGATTTTGACAAATACATTGCTTACATGGAGTCCCAAGGGGCACACCGAGCTGGACTGGCCAA  
 GGTCAATCCACAAAAGAATGGAGGGCCAGGCAGTCTTATGACAATATCAGCAACATCTTAAATAGCAACT  
 CCCCTGCAGCAAGTGGTCTCTGGGCAGGCAGCGTGTTCACCAATACCATAAGAAGAAGAAAGGCATGA  
 CAGTGGGGGAGTACCGTGAAGTGGCCAACAGCAAAAAGTACCAGACCCCGCCACACCTGGATTTTGAAGA  
 TTTGGAGCGAAAATACTGGAAGAATCGCCTGTATGAGTCACCGATTTATGGTGTGACGTGACGCGGCTCC  
 CTGTTTGTAGGGAAAGACTCAACAGTGAATGTGGGTACCTGGGAACAATTAAGACCTATTGGAACAGG  
 AATGTGGCATAGTGATTGAGGGCGTCAACACGCCCTACCTGTACTTTGGCATGTGAAGACCACCTTTGC  
 GTGGCACACGGAGGACATGGACCTGTACAGTATCAACTACCTACACTTTGGGCAGCCCAAGACCTGGTAT  
 GCTGTGCCCCCTGAGCATGGCAGGCGCCTGGAGCGCCTGGCCAGGGAACCTTCCCTGGCAGCTCCAGG  
 GCTGCCAGGCCTTCTGAGGCACAAGGTGGCGCTCATCTCGCCCACTGTGCTTAAGGAGAATGGCATCCC  
 CTTTGGTGCATCACCCAGGAGGCTGGGGAGTTTCAATGGTACCTTTCCCTATGGTACCACGCGGGCTTC  
 AACCATGGCTTCAACTGCGCAGAGGCCATCAATTTTGCACCCCAAGGTGGATTGACTATGGCAAGGTGG  
 CATCTCAGTGCAGCTGTGGGGAGGCCAGGGTGAGCTTCTCCATGGACGCCTTTGTGAGGATCTTGACGCC  
 TGAGCGATATGAAGTGTGAAACGTGGCCAAGATCAGGCAGTTGTGGACCACACAGAGACTATGGTGTCT  
 ACCAGTCAGGAGCTCACACCCGGCGGGTGACCAAGCACCAAGAAAACCTTGGGGCTTGAAGCGTCTCC  
 GGCTTCGCCAGGTCTCAGCATCTCTTCTGCCTATAGCCACGGTAAGTAACGTTCCCTGCAACATCAAGG  
 GTGCCACACTCCAGGCAACCATCAGATGTGAAAGGTGATGATGTCCAGAAGTCTGACTCAGCCAGAGCC  
 TACCACATCCTCTGAGTCTGCCTTCTTCTGGTACATGTCAACTAGAAGATGTAGTCTTGGTCTGCTGTC  
 CTTGTGAAGTAGGAGCTCAGGAGTCTCCAATGGAGCTCCAGTCAAGAGGCAACTCCAGCAGGCAGAGA  
 TGACACAAGCCCCAGTCCAGAGCTTCCAGCCAGGCTGTGAGTGGAGACTTAATAGTCGACTCAGGACTT  
 GTGAACCTGGCCACAGCATCTTATGACAGCTTCTGAAGGGGGATTGACCTCCGACCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218790 representing NM\_173433  
 Red=Cloning site Green=Tags(s)

MKTKSTCAQNPNCSIMIFRPTKEEFNDFDKYIAYMESQGAHRAGLAKVIPPKEWRARQSYDNISNILIAT  
 PLQQVVSQAGVFTQYHKKKKGMTVGEYRELANSSKQYTPPHLDFEDLERKYWKNRLYESPIYGADVSGS  
 LFDGKTQQWNVGHLGTIQDLLEQECGIVIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGQPKTWY  
 AVPPEHGRRLERLARELFPSSQGCQAFLRHKVALISPTVLKENGIPFGRITQEAGEFMVTFPYGYHAGF  
 NHGFNCAEAINFATPRWIDYGVASQCSCGEARVSFMDAFVIRILQPERYELWKRQDQAVVDHTEMTVS  
 TSQELTTRRVTKAPRKTWGLKRLRLRQVSRLLPIATVSNVPCNMQVCHTSRQPSDVKGDDVQKSDSARA  
 SPHPLSLPSSGHMSTRCSLGRRPCELGAQESSNGAPVKRQLPAGRDDTSPSPELQPQAVSGDLIVDSGL  
 VNPQPQLMTASEGGLTSDP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1744\\_b07.zip](https://cdn.origene.com/chromatograms/ja1744_b07.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_173433

**ORF Size:** 1530 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

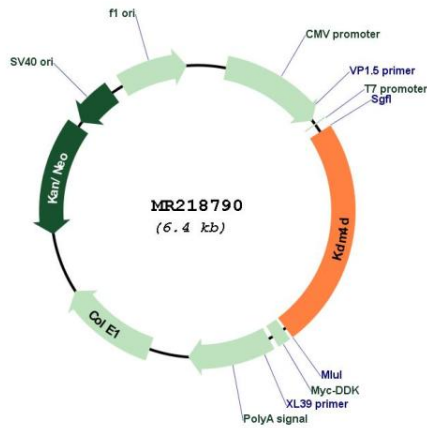
**UniProt ID:** [Q3U2K5](#)

**Cytogenetics:** 9 A2

**MW:** 57.7 kDa

**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]

**Product images:**



Circular map for MR218790