

Product datasheet for **MG218790**

Kdm4d (NM_173433) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm4d (NM_173433) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kdm4d
Synonyms:	4932416A15; Jmjd2d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218790 representing NM_173433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGACGAAGTCCACATGTGCTCAGAATCCAAATTGCAGCATAATGATATTTTCGTCACCAACAAAGAAG
 AGTTTAATGATTTTGACAAATACATTGCTTACATGGAGTCCCAAGGGGCACACCGAGCTGGACTGGCCAA
 GGTCAATCCCAAAAAGAAATGGAGGGCCAGGCAGTCTTATGACAATATCAGCAACATCTTAAATAGCAACT
 CCCCTGCAGCAAGTGGTCTCTGGGCAGGCAGGCGTGTTCACCAATACCATAAAGAAGAAGAAAGGCATGA
 CAGTGGGGGAGTACCGTGAAGTGGCCAACGACAAAAAGTACCAGACCCCGCCACACCTGGATTTTGAAGA
 TTTGGAGCGAAAATACTGGAAGAATCGCCTGTATGAGTCACCGATTTATGGTGTGACGTGACGCGGCTCC
 CTGTTTGTAGGGAAGACTCAACAGTGAATGTGGGTACCTGGGAACAATTAAGACCTATTGGAACAGG
 AATGTGGCATAGTGATTGAGGGCGTCAACACGCCCTACCTGTACTTTGGCATGTGAAGACCACCTTTGC
 GTGGCACACGGAGGACATGGACCTGTACAGTATCAACTACCTACACTTTGGGCAGCCCAAGACCTGGTAT
 GCTGTGCCCCCTGAGCATGGCAGGCGCCTGGAGCGCCTGGCCAGGGAACCTTCCCTGGCAGCTCCAGG
 GCTGCCAGGCCTTCTGAGGCACAAGGTGGCGCTCATCTCGCCCACTGTGCTTAAGGAGAATGGCATCCC
 CTTTGGTGCATCACCCAGGAGGCTGGGGAGTTTCATGGTACCTTTCCCTATGGTACCACGCGGGCTTC
 AACCATGGCTTCAACTGCGCAGAGGCCATCAATTTTGCACCCCAAGGTGGATTGACTATGGCAAGGTGG
 CATCTCAGTGCAGCTGTGGGGAGGCCAGGGTGAGCTTCTCCATGGACGCCTTTGTGAGGATCTTGACGCC
 TGAGCGATATGAACTGTGGAACGTGGCCAAGATCAGGCAGTTGTGGACCACACAGAGACTATGGTGTCT
 ACCAGTCAGGAGCTCACACCCGGCGGGTGACCAAGCACCAAGAAAAACTTGGGGCTTGAAGCGTCTCC
 GGCTTCGCCAGGTCTCAGCATCTCTTCTGCCTATAGCCACGGTAAGTAACGTTCCCTGCAACATCAGGT
 GTGCCACACTCCAGGCAACCATCAGATGTGAAAGGTGATGATGTCCAGAAGTCTGACTCAGCCAGAGCC
 TACCACATCCTCTGAGTCTGCCTTCTTCTGGTACATGTCAACTAGAAGATGTAGTCTTGGTCTGTCGTC
 CTTGTGAACTAGGAGCTCAGGAGTCTCCAATGGAGCTCCAGTCAAGAGGCAACTCCAGCAGGCAGAGA
 TGACACAAGCCCCAGTCCAGAGCTTCAGCCCCAGGCTGTGAGTGGAGACTTAATAGTCGACTCAGGACTT
 GTGAACCTGGCCACAGCATCTTATGACAGCTTCTGAAGGGGGATTGACCTCCGACCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218790 representing NM_173433
 Red=Cloning site Green=Tags(s)

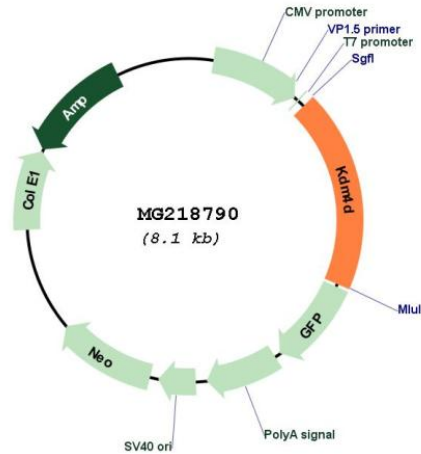
MKTKSTCAQNPNCSIMIFRPTKEEFNDFDKYIAYMESQGAHRAGLAKVIPPKEWRARQSYDNISNLIAT
 PLQQVVSQAGVFTQYHKKKKGMTVGEYRELANSKKYQTPPHLDFEDLERKYWKNRLYESPIYGADVSGS
 LFDGKTQQWNVGHLGTIQDLLEQECGIVIEGVNTPYL YFGMWKTTFAWHTEDMDLYSINYLFHGQPKTWY
 AVPPEHGRRLERLARELFPSSQGCQAFRLRHKVALISPTVLKENGIPFGRITQEAGEFMVTFPYGYHAGF
 NHGFNCAEAINFATPRWIDYGVASQCSCGEARVSFSMDAFVRIHQPERYELWKRQDQAVVDHETMVS
 TSQELTTRRVTKAPRKTWGLKRLRLRQVSRLLPIATVSNVPCNMQVCHTSRQPSDVKGDDVQKSDSARA
 SPHPLSLPSSGHMSTRCSLGRRPCELGAQESSNGAPVKRQLPAGRDDTSPPELQPVAVSGDLIVDSGL
 VNPQPQLMTASEGLTSDP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



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

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]