

## Product datasheet for **RG212600**

### **KDM4D (NM\_018039) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KDM4D (NM_018039) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM4D
Synonyms:	JMJD2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG212600 representing NM\_018039  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACATGAAGTCTAAGGCCAACTGTGCCAGAATCCAATTTGTAACATAATGATATTTTCATCCAA  
 CCAAAGAAGAGTTAATGATTTTGATAAATATATTGCTTACATGGAATCCAAGGTGCACACAGAGCTGG  
 CTTGGCTAAGATAATTCCACCCAAGAATGAAAAGCCAGAGAGACCTATGATAATATCAGTGAAATCTTA  
 ATAGCCACTCCCCTCCAGCAGGTGGCCTCTGGCGGGCAGGGGTGTTACTCAATACCATAAAAAAAGA  
 AAGCCATGACTGTGGGGAGTATCGCCATTTGGCAAACAGTAAAAAATATCAGACTCCACCACACCAGAA  
 TTTGGAAGATTTGGAGCGAAAATACTGGAAGAACCGCATCTATAATTACCGATTTATGGTGCTGACATC  
 AGTGGCTCCTTGTGATGAAAACATAAACAATGGAATCTTGGGCACCTGGGAACAATTCAGGACCTGC  
 TGGAAAAGGAATGTGGGTTGTCATAGAAGCGTCAATACACCCTACTTGTACTTTGGCATGTGGAAAAC  
 CACGTTTGCTTGGCATAACAGAGGACATGGACCTTACAGCATCAACTACCTGCACCTTGGGAGCCCAA  
 ACTTGGTATGTGGTGCCCCCAGAACATGGCCAGCGCTGGAACGCTGGCCAGGGAGCTCTTCCCAGGCA  
 GTTCCCAGGGTGTGGGGCTTCTGCGGCACAAGGTGGCCCTCATCTCGCTACAGTTCTCAAGAAAA  
 TGGGATTCCTTCAATCGCATAACTCAGGAGGCTGGAGAGTTCATGGTGACCTTTCCCTATGGTACCAT  
 GCTGGCTTCAACCATGGTTTCAACTGCGCAGAGGCCATCAATTTTGGCACTCCGCGATGGATTGATTATG  
 GCAAAATGGCCTCCAGTGTAGCTGTGGGGAGGCAAGGGTGACCTTTCCATGGATGCCTTCGTGCGCAT  
 CCTGCAACCTGAACGCTATGACCTGTGAAACGTGGGCAAGACCGGGCAGTTGTGGACCACATGGAGCCC  
 AGGGTACCAGCCAGCCAAGAGCTGAGCACCCAGAAGGAAGTCCAGTTACCCAGGAGAGCAGCGCTGGGCC  
 TGAGACAACTCCCTCCACTGGGCCCGGCATTCCTTGGCCTATGGCTGCCCGCAGTGGGACACGGTG  
 CCACACCCTTGTGTGCTCTTCACTCCCACGCCAATCTGCAGTTAGTGGCACTGCTACGCAGCCCCGGCT  
 GCTGCTGTCCACAGCTCTAAGAAGCCCAGCTCAACTCCATCATCCACCCTGGTCCATCTGCACAGATTA  
 TCCACCCTGCAAAATGGCAGACGTGGTCTGGTGGCCCTCCTCAGAACTGAGAGCTCAGGAGCTGACCT  
 CCAGACTCCAGCCAAGAGGCCCTTGGCGGGCACAACATGCACAGCTTCGGGCCCAGAACCTGAGCCC  
 CTACCTGAGGATGGGCTTTGATGGACAAGCCTGTACCACTGAGCCAGGGCTCCAGCATCTGTCAAGG  
 CTTCTGGGTGCAGCTGGGCCCTGTGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG212600 representing NM\_018039  
 Red=Cloning site Green=Tags(s)

METMKSKANCAQNPNCNIMIFHPTKEEFNDFDKYIAYMESQGAHRAGLAKIIPPKEWKARETYDNISEIL  
 IATPLQQVASGRAGVFTQYHKKKKAMTVGEYRHLANSKKYQTPPHQNFEDLERKYWKNRIYNSPIYGADI  
 SGSLFDENTKQWNLGHLGTIQDLLEKECGVIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYHLHGEPK  
 TWYVVPPEHGQRLERLARELFPSSRGGAFRLRHKVALISPTVLKENGIPFNRIQTEAGEFMVTFPYGYH  
 AGFNHGFNCAEAINFATPRWIDYGMASQCSCGEARVTFSMDFVRILQPERYDLWKRQDRAVVDHMEP  
 RVPASQELSTQKEVQLPRRAALGLRQLPSHWARHSPWMAARSGTRCHTLVCSLPRQSAVSGTATQPRA  
 AAVHSSKKPSSTPSSTPGPSAQIIHPSNGRRRGRPPQKLRAQELTLQTPAKRPLLAGTTCTASGPEPEP  
 LPEDGALMDKPVPLSPGLQHPVKASGCSWAPVP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_018039

**ORF Size:** 1569 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\\_018039.3](#)

**RefSeq Size:** 2988 bp

**RefSeq ORF:** 1572 bp

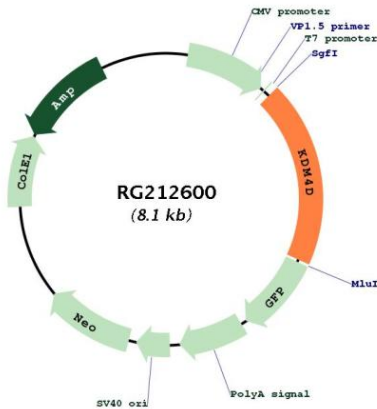
**Locus ID:** 55693

**UniProt ID:** [Q6B0I6](#)

**Cytogenetics:** 11q21

**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.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for RG212600