

Product datasheet for **RG200574**

KDM4A (NM_014663) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4A (NM_014663) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM4A
Synonyms:	JHDM3A; JMJD2; JMJD2A; TDRD14A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200574 representing NM_014663 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCTGAGTCTGAAACTCTGAATCCCAGTGCTAGGATAATGACCTTTATCCAACATGGAAGAGT
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ATCAACAGCTGGTGACGGGCAGTCTGGCCTTTACTCAGTACAACATACAGAAGAAAGCCATGACTG
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AATCCTGCGTCTGTAGGGGGACGCCTTGTCTTCTCAGGCTCCAAAAAGAAATCATCTTCTAGCCTGGGCT
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GAAGATTATTTGAGCCTGCACTATACCGGCCATCATGGAG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200574 representing NM_014663

Red=Cloning site Green=Tags(s)

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MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKVVPKWKPRASYDDIDDLVIPAP
IQQLVTGQSGFLTQYNIQKAMTVREFRKIANSDKYCTPRYSEFEELERKYWKNLTFNPPYIYGADVNGTL
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VPPEHGKRLERLAKGFFPGSAQSCEAFLRHKMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFN
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AEFLKESELPPRAGNEEECPPEEDMEGVDEEGLKTSLAKHRIGTKRHRVCLIPQEVSSQSELPFKEDL
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NPASVGGRLVFSGSKKSSSSSLGSGSSRDSISSDSETPSEPLSCRAQQTGVLTVHYSYAKGDGRVTGGEPC
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LEEDCCLCSLRGGALQRANDRWVHSCAVAILERFVNIAERSPVDVSKIPLPRFKLKCIFCKRRKRRT
AGCCVQCSHGRCPTAFHVSCAQAAGVMMQPDWPFVVFITCFRHKIPNLERAKGALQSITAGQKVISKHK
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EDYIEPALYRAIME
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014663

ORF Size: 3192 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_014663.1](#), [NP_055478.1](#)

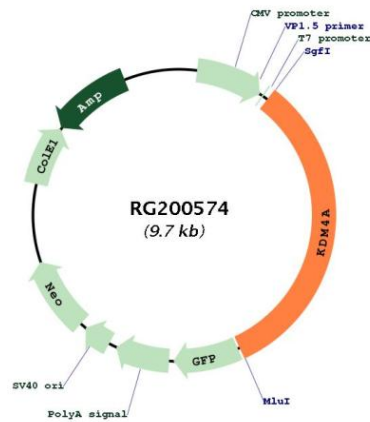
RefSeq Size: 4526 bp

RefSeq ORF: 3195 bp

Locus ID: 9682

UniProt ID: [O75164](#)
Cytogenetics: 1p34.2-p34.1
Domains: PHD, TUDOR, JmjC, JmjN
Protein Families: Druggable Genome, Transcription Factors
Gene Summary: This gene is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein containing a JmjN domain, a JmjC domain, a JD2H domain, two TUDOR domains, and two PHD-type zinc fingers. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form, and as a transcriptional repressor. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RG200574