

Product datasheet for **RR212834**

Kdm4a (NM_001107966) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm4a (NM_001107966) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm4a
Synonyms:	Jmjd2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212834 representing NM_001107966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTGTTCTGAGTTCGCAAGATCGCCAATAGTGACAAGTACTGTACTCCACGGTATAGTGAATTTG
 AAGAACTTGAGCGTAAATACTGGAAAAACCTCACATTCAATCCTCCCATCTATGGAGCAGATGTGAATGG
 TACTCTCTATGAACAGCACGTTGATGAGTGAACATCGGCCGGCTGAAGACCATCCTGGACCTGGTGGAG
 AAGGAGAGTGGGATCACCATCGAGGGCGTGAACACCCCTACCTGTACTTTGGCATGTGGAAGACGTCTT
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 GTACTCTGTTCCACCTGAGCATGGGAAACGCCTGGAGCGGCTCGCCAAAGGCTTTTTCCAGGAAGTGT
 CAAAGCTGTGAGGCTTTCTCCGCCACAAGATGACCTGATCTCCCATTAATGTGAAGAAGTATGGCA
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 GGAAGCAGCTGAGTTTCTGAAGGACAGTGGACTAACCCCAAGAGCTGGGAATGAGGAGTGCCAGAGGAG
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 CAAAGAGACACCGAGTCTGTCTGAAAATACCACAGGAGTCACTCAGAGCGAGCTTTCCCAAGGAAGA
 GCTGAGTTCTGGACAGTATGAGATGACAGAGTCCAGGCCACCCCTCGCCCAAGTGGGCCACCCACAGC
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 TGAGGAGACCGAGGCTTGGGCTAAGCCTCTGAGCCAGCTGTGGCAGAACCAGCTCCAACTTTGAGGCT
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 GGAGATTACATCGAGCCAGCACTGTATCGGGCCATCATGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212834 representing NM_001107966
 Red=Cloning site Green=Tags(s)

MTVREFRKIANS DKYCTPRYSEFEELERKYWKNLTFNPP IYGADVNGTLYEQHVDEWNIGRLKTIIDLVE
 KESGITIEGVNTPYL YFGMWKTSFAWHTEDMDL YSINYLHFGEPKSWYSVPPEHGKRLERLAKGFFPGSA
 QSCEAF LRHKMTLISPLMLK KYGIPFDKVTQEAGEFMITFPYGYHAGFNHGFNCAESTNFATRRWIEY GK
 QAVLCS CRKDMVKISMDV FVRRFQPERYK LWKAGKDSTVIDHTLPTPEAAEFLKDSGLTPRAGNEECPEE
 DSEAAEQGEEGDVKRSLAKHRIGTKRHRVCL EIPQEV SQSELPKPEELSSGQYEMTECQATLAPVRP THS
 SVRQVEDSLPFPDYSDPTEVKFEELKNVKLEEEDEEPEAAALDLSVNPE SVEGRLVFSGSKKKASSSL
 GSSSSQDSVSSDSETTESVSCQ GQEKTVLTVHSY SRGDGKAAPGEP SVKRQRSAPRSISEQELAEVADEY
 MLSLEENKKTGRRQPLSKLPRHPLVLQECGSDDETSEQLTPEEEAEETEAWAKPLSQLWQNRPPNFEA
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 TPYLEEDGTSMLVSCCKCSVRVHASCYGVPPAKASEEWMCSRCSANALEEDCCLCSLRGGALQRANDRW
 VHVSCAVAIL EARFVNIAERSPDVSKIPLPRFKLKCVFCKRRKR NAGCCVQC SHGRCPTAFHVSCAQ A
 AGVMMQPD DPFVVFITCFRHKIPNLERAKGALLSITAGQKVISKHKNGRFYQCEVVR LTTETFYEVNFD
 DGSFSDNLYPEDIVSQDCLQLGPPAEGEVVQVRWTDGQVYGAKFVASHPIQMYQVEFEDGSQLVVKRDDV
 YTLDEELPKRVKSRLSVASDMRFNEIFTEKEVKQEKQRQVINSRYREDYIEPALYRAIME

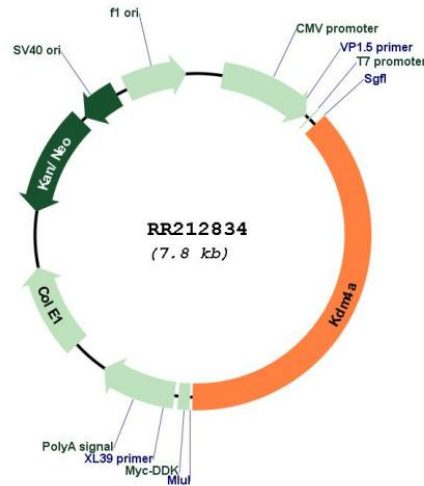
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001107966

ORF Size: 2913 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_001107966.1](#), [NP_001101436.1](#)

RefSeq Size: 4421 bp

RefSeq ORF: 2916 bp

Locus ID: 313539

Cytogenetics: 5q36

MW: 110.1 kDa