

Product datasheet for MR224566

Kdm4c (NM_001172095) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kdm4c (NM_001172095) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kdm4c
Synonyms:	2410141F18Rik; AA517467; Gasc1; Jmjd2c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224566 representing NM_001172095 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGATTATCAAGTATGTGCATCATCAATCCAAACATCTGTGGCCATCATGGAGGTGGTGGAGGTGG
AGAGTCCCCTAAATCCCAGCTGTAAGATAATGACCTTCAGACCTCCATGGAGGAGTTTCGGGAGTTCAA
CAAATACCTCGCATACATGGAATCCAAAGGAGCCCATCGAGCAGGTCTTGCCAAGGTGATTCCTCCTAAG
GAGTGGAAAGCCAAGACAGTGTATGATGATATTGATAATTTGCTCATCCCAGCACCAATTCAGCAGATGG
TCACAGGGCAGTCGGGACTGTTCACGCAATACAACATCCAGAAGAAAGCCATGACTGTGAAGGAGTTCAG
GCAGCTGGCTAACAGCAGCAAATACTGTACTCCAAGATACTTGGATTATGAAGATTTGGAACGCAAATAC
TGGAAAAACTTAACTTTTGTGGCACCTATTTATGGAGCAGATATAAATGGGAGCATTTATGATGAGGGTG
TGGATGAATGGAATATAGCTCGCCTAAATACAGTCTTGGATGTGGTTGAAGAAGAGTGTGGTATTTCTAT
TGAGGGGGTAAATACCCCTTATCTCTATTTTGGAAATGTGGAAAACAACATTTGCGTGGCACACGGAGGAC
ATGGATCTCTACAGTATTAATTAATCTCCACTTTGGGGAGCCCAAGTCTTGGTATGCTATACCTCCGGAGC
ATGGAAGCGACTTGAAGACTAGCCCAAGGCTTCTTCCCAAGTACTCCAAGGCTGTGATGCATTTCT
CCGGCACAAAGATGACCCATTTCCCTCAGTGTGAAGAAGTATGGCATTCCCTTCGACAAGATCACC
CAGGAGGCTGGAGAGTTTATGATCACTTTTCTTATGGATATCATGCTGGTTTTAATCATGGTTTCAAT
GTGCTGAGTCTACAAATTTTGTACAGTACAGTGGATTGACTACGGCAAGGTTGCTAAGTTGTGCACTTG
TCGGAATGACATGGTGAAGATATCAATGGATATATTTGTGAAGAAATTTAGCCAGATAGATACCAGATT
TGGAAACAAGGAAAGGATATATACTATTGACCATACAAAGCCCACTCCAGAATCTACTCCAGAAGTAA
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TAAAAGGCCTAAACCTGAAGAAGATGAGGAATTTGCTGAATTTAGTGGGAAGAGGGTGC AAACCTGCC
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ATTTACCATCTCAGCTGAAGGAGGGCGCTGACTGCATACCACCTTCTCATGGCCATCAAGCAGGCAAAG
 AGTCACATCTACTTAAGATTCTAAAGCTTGAATCTCCCAAGATACCTTCCCCCTGCCAGAAAGTAATA
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 AGCCTGATGACTGGCCTTACGTGGTAAACATCACATGCTTCAGACATAGAGTCAACTCAAACCGAAATC
 CAAAATCTGTGAGAAAGCCATTTCTGTGGGTGAGACAGTCAACAAAACATCGAAACACTCGGTACTAC
 AGCTGCAGAGTATAGATGTGACATCTCAAACCTTCTATGAGGTGATGTTGATGATGGCTCCTTCAGCA
 GAGACACATTTCTGAAGATATTGTGAGCCGAAACTGTGTGAAGTGGGCCCTCTGCGGAGGGAGAAGT
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 AGCAGATGTAATCCAAGGGGAGAGGAAGAGGCAAAGAGTCTAAGCTCCAGGCTCAAGAATGAGTATGTG
 GATGACCCTGTGATCGTACTTTCTGAAGAGTCTTTCCAGAAGAAGTGCAGAAGAGACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224566 representing NM_001172095

Red=Cloning site Green=Tags(s)

MKDYQVCASSIQTSVAIMEVVEVESPLNPSCIMTFRPSMEEFREFNKYLAYMESKGAHRAGLAKVIPPK
 EWKPRQCYDDIDNLLIPAPIQQMVTGQSLFTQYNIQKKAMTVKEFRQLANSSKYCTPRYLDYEDLERKY
 WKNLTFVAPIYGADINGSIYDEGVDEWNIARLNTVLDVVEEECGISIEGVNTPYLYFGMWKTTFAWHTED
 MDLYSINYLFHFGEPKSWYAIPPEHGKRLERLAQGFPPSSSQCD AFLRHKMTLISPSVLKKGIPFDKIT
 QEAGEFMITFPYGYHAGFNHGFNCAESTNFATVRWIDYGVAKLCTCRNDMVKISMDIFVKKFQPDRIYI
 WKQGDYITIDHTKPTPESTPEVKTWLRKQKLRKPPKSLQGNKPLCKRPKPEEDEF AEFSGEEGANPA
 MGRPHLKVTEKPEKALKLGKLEESSAKEALDTRIQVDQSL LNDTKLSGKGCISSSVTA EI PPEDNRASAV
 ISPSQLKEGADCIPLSHGHQAGKESHLLKILKLESPKIPSPLPESNKVLT EGEENDEEGHGSNLEPGEIP
 EALSEERNGLNIPKII EGQPKTTKSWRHPLGKPPARSPMTLVKQQVASDEELPEVLSIDEVEETESWAK
 PLIHLWQTKSPNFM AEQEYNATVAKMEPNCAICTLLMPYKPDSSKEENDSRWETAVNEVVQSGRKTKPI
 IPEMCFIYSEENVDSPPNAFL EEDGTSLLISCAKCFVRVHASCYGVPSHEVCDGWL CARCKRNAWTAEC
 CLCNLRGGALKQTKNNQWAHVICAVAVPEVRF TNPVERTQIDVDRIPLQRLKLCIFCRHRVKKVSGACI
 QCSYGRCPASFHVTC AHAAGVLM EPDDWPYV VNI TCFRHRVNSNAKSKTCEKAI SVGQTVITKHRNTRY
 SCRVIDVTSQTFYEV MFDDGSF SRDTFPEDIVSRNCVKLGPPAEGEVIQV KWPDGKLYGAKYLGSNVAYM
 YQVEFEDGSQIAMKREDIYTLDEELPKRVKARF STASDMRFEDTFY GADV IQGERKRQRV LSSRLKNEYV
 DDPVYRFLKSSFQKCKQKRQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9091_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001172095

ORF Size: 3213 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_001172095.1](#), [NP_001165566.1](#)

RefSeq Size: 4207 bp

RefSeq ORF: 3216 bp

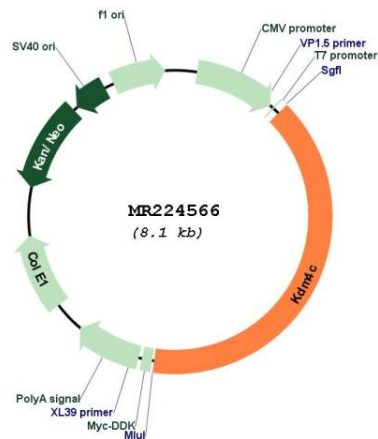
Locus ID: 76804

UniProt ID: [Q8VCD7](#)

Cytogenetics: 4 C3
MW: 121.8 kDa

Gene Summary: Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224566