

Product datasheet for **RC228633**

KDM4C (NM_001146694) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KDM4C (NM_001146694) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: KDM4C
Synonyms: bA146B14.1; GASC1; JHDM3C; JMJD2C; TDRD14C
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC228633 representing NM_001146694
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGTGGCCGAGGTGGAAAGTCTCTGAACCCAGCTGTAAGATAATGACCTTCAGACCCTCCATGG
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228633 representing NM_001146694
 Red=Cloning site Green=Tags(s)

MEVAEVESPLNPSCIMTFRPSMEEFREFNKYLAYMESKGAHRAGLAKVIPPKEWKPRQCYDDIDNLLIP
 APIQQMVTGQSGLFTQYNIQKKAMTVKEFRQLANSGKYCTPRYLDEYDLERKYWKNLTFVAPIYGADING
 SIYDEGVDEWNIARLNTVLDVVEEECGISIEGVNTPYLFGMWKTTFAWHTEDMDLYSINYLHFGEPSW
 YAIPPEHGKRLERLAQGFPPSSSQGDAFLRHKMTLISPSVLKKGIPFDKITQEAGEFMITFPYGYHAG
 FNHGFNCAESTNFATVRWIDYGVAKLCTCRKDMVKISMDIFVRKFQPDYQLWKQKDIYTDHTKPTP
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 NKWAHVMCVAVPEVRFNTNVPERTQIDVGRIPQLRLKLCIFCRHRVKRVSGACIQCSYGRCPASFHVTC
 AHAAGVLMPEDDWPYVNI TCFRHKVNPVNVKSKACEKVISVGQTVITKRNTRYYSRVMVAVTSQTFYEV
 MFDDGSFSDTFPEDIVSRDCLKLGPAAEGEVVQKWPDKLYGAKYFGSNI AHMYQVEFEDGSQIAMKR
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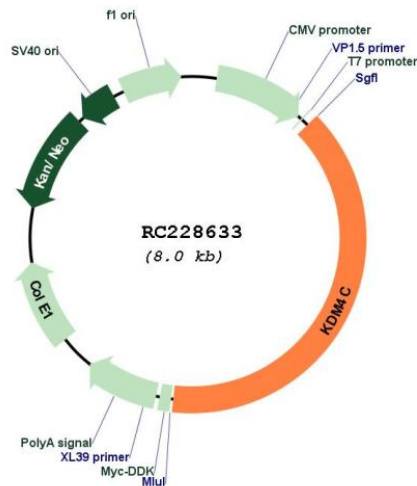
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001146694

ORF Size:

3141 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:	<ol style="list-style-type: none">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:	<u>NM_001146694.1, NP_001140166.1</u>
RefSeq ORF:	3144 bp
Locus ID:	23081
Cytogenetics:	9p24.1
Protein Families:	Druggable Genome, Transcription Factors
MW:	118.2 kDa
Gene Summary:	This gene is a member of the Jumonji domain 2 (JMJD2) family. The encoded protein is a trimethylation-specific demethylase, and converts specific trimethylated histone residues to the dimethylated form. This enzymatic action regulates gene expression and chromosome segregation. Chromosomal aberrations and changes in expression of this gene may be found in tumor cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]