

Product datasheet for **RG211182**

KDM4C (NM_015061) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KDM4C (NM_015061) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KDM4C
Synonyms: GASC1; JHDM3C; JMJD2C; TDRD14C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211182 representing NM_015061
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGTGGCCGAGGTGGAAAGTCTCTGAACCCAGCTGTAAGATAATGACCTTCAGACCCTCCATGG
AGGAGTCCGGGAGTTCAACAAATACCTTGATACATGGAGTCTAAAGGAGCCCATCGTCCGGTCTTGC
AAAGGTGATTCTCCTAAGGAGTGAAGCCAAGACAGTGTATGATGACATTGATAATTTGCTCATTCCA
GCACCAATTGAGGAGTGGTACAGGGCAGTCAAGTGTCTCACTCAGTACAACATCCAGAAAAAGCGA
TGACTGTGAAGGAGTTCAGGCAGCTGGCCAACAGTGGCAATATTGACTCCAAGATACTTGGATTACGA
AGATTTGGAGCGCAAGTACTGGAAGAACTTAACCTTTGTGGCACCTATCTATGGTGCAGATTAATGGG
AGCATATATGATGAGGGTGTGGATGAATGGAACATAGCTCGCCTCAATACAGTCTTGGATGTGGTTGAAG
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TGCATGGCACACCGAAGACATGGACCTCTATAGCATTAAATATCTCCACTTTGGAGAGCCCAAGTCTTGG
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AAGGGTGTGATGCATTTCTTCGCCACAAGATGACATTGATTTCTCCATCAGTATTGAAGAAATATGGTAT
TCCCTTTGACAAGATAACCCAGGAGGCTGGAGAATTCATGATCACTTTCCCATATGGCTACCATGCTGGT
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GCATCCACCCCTGAAGTAAAAGCATGGCTGCAGAGGAGGAGGAAAGTAAAGAAAAGCATCCCGAAGCTTCC
AGTGTGCTAGGTCTACCTCTAAAAGGCCTAAGGCTGATGAGGAAGAGGAAGTGTGAGATGAAGTGCATGG
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TCTAGTGGCTATGAGAAGCCCGAGAAATCAGACCCATCCGAGCTTTCATGGCCAAAGTCACCTGAGTCAT
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 TGGCCTTGAACCTGGGGAAATCCCAGCGGTCCCCAGTGGAGAGAGAAATAGCTTCAAAGTCCCAGTATA
 GCAGAGGGAGAGAAAACAACTTAAGAGTTGGCGCCATCCACTTAGCAGGCCTCCAGCAAGATCTCCGA
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 ATGTTTGTGATGGCTCCTTTAGCAGAGACACATTTCTGAGGATATCGTGAGCCGAGACTGTCTGAAGC
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 TGCCGATTTGAAGACACGTTTTATGGAGCAGACATTATCCAAGGGAGAGAAAGAGACAAAAGAGTCTGAG
 CTCAGGTTTTAAGAATGAATATGTGGCCGACCTATATACCGCACTTTTTTGAAGAGCTCTTCCAGAAG
 AAGTGCCAGAAGAGACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG211182 representing NM_015061

Red=Cloning site Green=Tags(s)

MEVAEVESPLNPSCIMTFRPSMEEFREFNKYLAYMESKGAHRAGLAKVIPPKEWKPRQCYDDIDNLLIP
 APIQQMVTGQSLFTQYNIQKKAMTVKEFRQLANSKYCTPRYLDEYDLERKYWKNLTFVAPIYGADING
 SIYDEGVDEWNIARLNTVLDVVEEECGISIEGVNTPYL YFGMWKTTFAWHTEDMDLYSINLHFGEPSW
 YAIPPEHGKRLERLAQGFPPSSSQGDAFLRHKMTLISPSVLKKGYPFDKITQEAGEFMITFPYGYHAG
 FNHGFNCAESTNFATVRWIDYGKVAKLCTCRKDMVKISMDIFVRKFQPDYQLWKQKDIYITIDHTKPTP
 ASTPEVKAWLQRRRKVRKASRSFQCARSTSKRPKADEEEEVSDEVDGAEVNPDSVTDLDLVSEKSEAAV
 KLRNTEASSEEESSSRMQVEQNLSDHIKLSGNSCLSTSVTEDIKTEDDKAYAYRSVPSISSEADDSIPL
 SSGYEKPEKSDPSEL SWPKSPESCSSVAESNGVLTEGEESDVESHGNLEPGEIPAVPSGERNSFKVPSI
 AEGENKTSKSWRHPLSRPPARSPMTLVKQQAQPSDEELPEVLSIEEEVEETESWAKPLIHLWQTKSPNFAA
 EQEYNATVARMKPHCAICTLLMPYHKPDSNEENDARWETKLDEVVTSEGKTKPLIPEMCFIYSEENIEY
 SPPNAFL EEDGTSLLISCAKCCVRVHASCYGIPSHEICDGLWCARCKRNAWTAECCLCNLRGGALKQTKN
 NKWAHVMAVAVPEVRFNTVPERTQIDVGRIPQLRKLKCIFCRHRVKRVSGACIQCSYGRCPASFHVTC
 AHAAGVLM EPDDWPYVVNITCFRHKVNPVSKACEKVISVGQTVITKHNTRYYSRVMVAVTSQTFYEV
 MFDDGSFSRDTFPEDIVSRDCLKLGPPEGEVQVQKWPDGKLYGAKYFGSNI AHMYQVEFEDGSQIAMKR
 EDIYTLDEELPKRVKARFSTASDMRFEDTFYGADIIQGERKRQVLSRRFKNEYVADPIYRTFLKSSQK
 KCQKRQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015061

ORF Size: 3168 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_015061.2](#), [NP_055876.2](#)

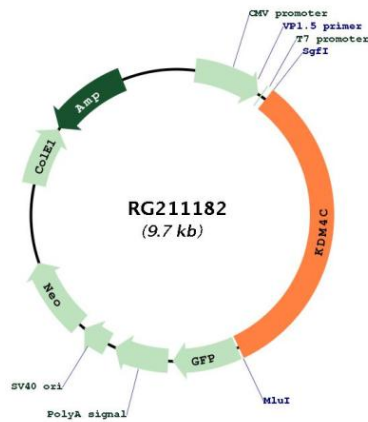
RefSeq Size: 4674 bp

RefSeq ORF: 3171 bp

Locus ID: 23081

UniProt ID: [Q9H3R0](#)
Cytogenetics: 9p24.1
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. 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]

Product images:



Circular map for RG211182