

Product datasheet for **RG228593**

KDM4C (NM_001146696) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4C (NM_001146696) 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)



[View online »](#)

ORF Nucleotide
Sequence:

>RG228593 representing NM_001146696
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGCACTATGGGCTGCCCTGGAAGAGGACTGAAGAAGCAGCTGCAGACACTGCCCTAACCATCATGG
AGGTGGCCGAGGTGAAAAGTCTCTGAACCCAGCTGTAAGATAATGACCTTCAGACCCTCCATGGAGGA
GTTCCGGGAGTTCAACAATACCTTGCATACATGGAGTCTAAAGGAGCCCATCGTGCGGGTCTTGCAAAG
GTGATTCCTCCTAAGGAGTGAAGCCAAGACAGTGCTATGATGACATTGATAATTTGCTCATTCCAGCAC
CAATTCAGCAGATGGTCACAGGGCAGTCAGGACTGTTCACTCAGTACAACATCCAGAAAAAGCGATGAC
TGTGAAGGAGTTCAGGCAGCTGGCCAACAGTGGCAAATATTGACTCCAAGATACTTGGATTACGAAGAT
TTGGAGCGCAAGTACTGGAAGAACTTAACTTTTGTGGCACCTATCTATGGTGCAGATTAATGGGAGCA
TATATGATGAGGGTGTGGATGAATGGAACATAGCTCGCCTCAATACAGTCTTGGATGTGGTTGAAGAAGA
GTGTGGCATTCTATTGAGGGTGTAAATACCCCATATCTCTATTTGGCATGTGGAAGACCACGTTTGCA
TGGCACACCGAAGACATGGACCTCTATAGCATTAAATTATCTCCACTTTGGAGAGCCCAAGTCTTGGTATG
CTATACCTCCGGAGCATGAAAAACGACTTGAAAGACTAGCTCAAGGTTTTTCCCAAGCAGCTCCCAAGG
GTGTGATGCATTTCTCGCCACAAGATGACATTGATTTCTCCATCAGTATTGAAGAAATATGGTATTCCC
TTTGACAAGATAACCCAGGAGGCTGGAGAATTCATGATCACTTTCCCATATGGCTACCATGCTGGTTTTA
ATCATGGTTTTCACTGTGCAGAACTACAAAATTTGCTACTGTGAGATGGATTGACTATGAAAAAGTTGC
CAAATTTGCACTTGCAGAAAGACATGGTGAAGATTTCAATGGATATCTTTGTGAGGAAATTTGAGCA
GACAGATATCAGCTTTGAAAACAAGGAAAGGATATATACACCATTGATCACACGAAGCCCTACTCCAGCAT
CCACCCCTGAAGTAAAAGCATGGCTGCAGAGGAGGAAAGTAAAGAAAAGCATCCCGAAGCTTCCAGTG
TGCTAGGTCTACCTCTAAAAGGCCCTAAGGCTGATGAGGAAGAGGAAGTGTGAGATGAAGTCGATGGGGCA
GAGGTCCCTAACCCCGACTCAGTCACAGATGACCTCAAGGTGAGTAAAAGTCAAGAGCAGCAGTGAAGC
TGAGGAACACAGAAGCATCTTCAGAAGAAGAGTCTGCTAGCAGGATGCAGGTGGAGCAGAATTTATC
AGATCATATCAAATCTCAGGAAACAGCTGCTTAAAGTACATCTGTAAACAGAAGACATAAAAACTGAGGAT
GACAAAGCTTATGCATATAGAAGTGTACCTTCTATATCCAGTGAAGGCTGATGATTCCATTCCATTGTCTA
GTGGCTATGAGAAGCCCGAGAAATCAGACCCATCCGAGCTTTGATGGCCAAAGTCACTGAGTCATGCTC
ATCAGTGGCAGAGAGTAATGGTGTGTTAACAGAGGGAGAAGAGAGTGTGTTGGAGAGCCATGGGAATGGC
CTTGAACCTGGGAAATCCAGCGGTCCCAAGTGGAGAGAGAAATAGCTTCAAAGTCCCAAGTATAGCAG
AGGGAGAGAACAACCTCTAAGAGTGGCGCCATCCACTTAGCAGGCCCTCCAGCAAGATCTCCGATGAC
TCTTGTGAAGCAGCAGGCGCAAGTGTGAAGAATTCCTGAGGTTCTGTCCATTGAGGAGGAAGTGGAA
GAAACAGAGTCTTGGGCGAAACCTCTCATCCACCTTTGGCAGACGAAGTCCCTAACTTCGAGCTGAGC
AAGAGTATAATGCAACAGTGGCCAGGATGAAGCCACACTGTGCCATCTGCACTCTGCTCATGCCGTACCA
CAAGCCAGATAGCAGCAATGAAGAAAATGATGCTAGATGGGAGACAAAATAGATGAAGTCGTTACATCG
GAGGAAAAGACTAAGCCCTCATACCAGAGATGTGTTTTATTTATAGTGAAGAAAATATAGAATATTCTC
CACCCAATGCCTTCCTTGAAGAGGATGGAACAAGTCTCCTTATTTCTGTGCAAAGTGTGCGTACGGGT
TCATGCAAGTTGTTATGGTATTCCTTCTCATGAGATCTGTGATGGATGGCTGTGCCCGGTGCAAAGA
AATGCGTGGACAGCAGAATGCTGTCTCTGCAATTTGAGAGGAGGTGCTCTTAAGCAAACGAAGAACAATA
AGTGGGCCATGTGATGTGCGCCGTTGGGTCCCAAGTTCGATTCACTAATGTCCAGAAAGGACACA
AATAGATGTAGGCAGAATACCTTTACAGAGGTTAAAATGGGAAGGCTGGGAATC

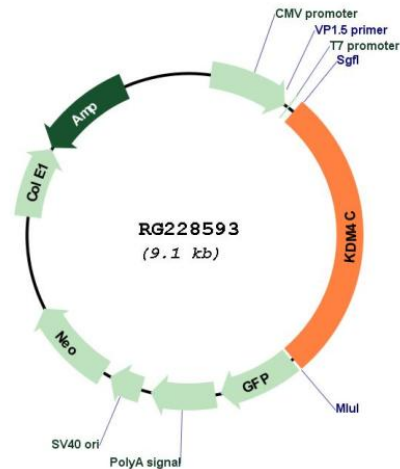
ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228593 representing NM_001146696
Red=Cloning site Green=Tags(s)

MKHYGLPWKRTEEAADTALTIMEVAEVESPLNPSCKIMTFRPSMEEFREFNKYLAYMESKGAHRAGLAK
VIPPKEWKPRQCYDDIDNLLIPAPIQQMVTGQSGLFTQYNIQKKAMTVKEFRQLANSKGYCTPRYLDYED
LERKYWKNLTFVAPIYGADINGSIYDEGVDEWNIARLNTVLDVVEEECGISIEGVNTPYL YFGMWKTTFA
WHTEDMDLYSINYLFHFGEPKSWYAIPPEHGKRLERLAQGFPPSSSQGDAFLRHKMTLISPSVLKKGIP
FDKITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATVRWIDYGVAKLCTCRKDMVKISMDFVRKFQP
DRYQLWKQKDIYTIIDHTKPTPASTPEVKAWLQRRRKVRKASRSFQCARSTSKRPKADEEEEVSDEVDGA
EVPNPDSVTDDLKVSEKSEAAVKLRNTEASSEEESSASRMQVEQNLSDHIKLSGNSCLSTSVTEDIKTED
DKAYAYRSVPSISSEADDSIPLSSGYEKPEKSDPSEL SWPKSPESCSSVAESNGVLTEGEESDVESHGNG
LEPGEIPAVPSGERNSFKVPSIAEGENKTSKSWRHPLSRPPARSPMTLVKQQAPSDEELPEVLSIEEEVE
ETESWAKPLIHLWQTKSPNFAAEQEYNATVARMKPHCAICTLLMPYHKPDSNEENDARWETKLDEVVTS
EGKTKPLIPEMCFIYSEENIEYSPPNAFLEEDGTSLLISCAKCCVRVHASCYGIP SHEICDGLWCARCKR
NAWTAECCLCNLRGGALKQTKNKWAHVMCVAVPEVRF TNVPERTQIDVGRIPLQRLKLGRLGI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_001146696

ORF Size: 2505 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_001146696.2](#)

RefSeq Size: 3422 bp

RefSeq ORF: 2508 bp

Locus ID: 23081

UniProt ID: [Q9H3R0](#)

Cytogenetics: 9p24.1

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]