

## Product datasheet for **RG228633**

### **KDM4C (NM\_001146694) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KDM4C (NM_001146694) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KDM4C
Synonyms:	bA146B14.1; GASC1; JHDM3C; JMJD2C; TDRD14C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228633 representing NM_001146694 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGTGGCCGAGGTGGAAAGTCTCTGAACCCAGCTGTAAGATAATGACCTTCAGACCCTCCATGG  
AGGAGTTCGGGAGTTCAACAAATACCTTGATACATGGAGTCTAAAGGAGCCCATCGTCCGGTCTTGC  
AAAGGTGATTCTCCTAAGGAGTGAAGCCAAGACAGTGTATGATGACATTGATAATTTGCTCATTCCA  
GCACCAATTGAGGAGTGGTACAGGGCAGTCAAGACTGTTCACTCAGTACAACATCCAGAAAAAGCGA  
TGACTGTGAAGGAGTTCAGGCAGCTGGCCAACAGTGGCAAATATTGTAAGTCAAGATACTGGATTACGA  
AGATTTGGAGCGCAAGTACTGGAAGAACTTAACCTTTGTGGCACCTATCTATGGTGCAGATTAATGGG  
AGCATATATGATGAGGGTGTGGATGAATGGAACATAGCTCGCCTCAATACAGTCTTGGATGTGGTTGAAG  
AAGAGTGTGGCATTCTATTGAGGGTGTAAATACCCCATATCTCTATTTGGCATGTGGAAGACCAGTT  
TGCATGGCACACCGAAGACATGGACCTCTATAGCATTAAATATCTCCACTTTGGAGAGCCCAAGTCTTGG  
TATGCTATACCTCCGAGCATGGAAAACGACTTGAAGACTAGCTCAAGGTTTTTCCCAAGCAGCTCCC  
AAGGGTGTGATGCATTTCTTCGCCACAAGATGACATTGATTTCTCCATCAGTATTGAAGAAATATGGTAT  
TCCCTTTGACAAGATAACCCAGGAGGCTGGAGAATTCATGATCACTTTCCCATATGGCTACCATGCTGGT  
TTAATCATGGTTCAACTGTGCAGAATCTACAAATTTTGCTACTGTCAGATGGATTGACTATGGAAAAG  
TTGCCAAATTGTCACTTGCAGGAAAGACATGGTGAAGATTTCAATGGATATCTTTGTGAGGAAATTTCA  
GCCAGACAGATATCAGCTTTGAAAACAAGGAAAGGATATATACACCATTGATCACACGAAGCCTACTCCA  
GCATCCACCCCTGAAGTAAAAGCATGGCTGCAGAGGAGGAGGAAAGTAAAGAAAAGCATCCCGAAGCTTCC  
AGTGTGCTAGGTCTACCTCTAAAAGGCCTAAGGCTGATGAGGAAGAGGAAGTGTGAGATGAAGTGCATGG  
GGCAGAGGTCCCTAACCCGACTCAGTCACAGATGACCTCAAGGTCAGTGAAGTCAAGAACGAGCAGTGG  
AAGCTGAGGAACACAGAAGCATCTTCAGAAGAAGAGTCACTGCTAGCAGGATGCAGGTGGAGCAGAATT  
TATCAGATCATATCAAATCTCAGGAAACAGCTGCTTAAGTACATCTGTAACAGAAGACATAAAACTGA  
GGATGACAAAGCTTATGCATATAGAAGTGTACCTCTATATCCAGTGGAGCTGATGATTCCATTCCATTG



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TCTAGTGGCTATGAGAAGCCCGAGAAATCAGACCCATCCGAGCTTTCATGGCCAAAGTCACCTGAGTCAT  
 GCTCATCAGTGGCAGAGAGTAATGGTGTGTTAACAGAGGGAGAAGAGAGTGATGTGGAGAGCCATGGGAA  
 TGGCCTTGAACCTGGGGAAATCCCAGCGGTCCCCAGTGGAGAGAGAAATAGCTTCAAAGTCCCAGTATA  
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 TGACTCTGTGAAGCAGCAGGCGCAAGTGATGAAGAATTGCCTGAGGTTCTGTCCATTGAGGAGGAAGT  
 GGAAGAAACAGAGTCTTGGCGAAACCTCTCATCCACCTTTGGCAGACGAAGTCCCCTAACTTCGCAGCT  
 GAGCAAGAGTATAATGCAACAGTGGCCAGGATGAAGCCACACTGTGCCATCTGCACCTGTCTATGCCGT  
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 AAGAAATGCGTGGACAGCAGAATGCTGTCTCTGCAATTTGAGAGGAGGTGCTCTTAAGCAAACGAAGAAC  
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 GCCCATGCTGCTGGGGTACTGATGGAGCCTGATGACTGGCCTTATGTGGTGAACATTACATGCTTTGCGAC  
 ATAAGGTCAACCCCAACGTGAAGTCCAAGGCTTGCAGAGAAGTCAATTTCCGTGGGTCAAACGGTCAACAC  
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 TTTTGGATCAAATATTGCCACATGTACCAGGTTGAGTTGAAGATGGATCCCAGATAGCAATGAAGAGA  
 GAGGACATCTACACTTTAGATGAAGAGTTACCCAAGAGAGTGAAGCTCGATTTGTAAGTGTGCCAGAT  
 GCCACTTGGGGACCTGCCAAGTGAATTCCTTGTCTCACCTCATGTTTCCAAGCCAGCAGGAAACATA  
 CTTGGGCTTTTGATTAATTCTAAAAAAGCCAATGCAACATTTTCTTGTGGAACCTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG228633 representing NM\_001146694  
 Red=Cloning site Green=Tags(s)

MEVAEVESPLNPSCIMTFRPSMEEFREFNKYLAYMESKGAHRAGLAKVIPPKEWKPRQCYYDDIDNLLIP  
 APIQQMVTGQSGLFTQYNIQKKAMTVKEFRQLANSGKYCTPRYLIDYEDLERKYWKNLTFVAPIYGADING  
 SIYDEGVDEWNIARLNTVLDVVEEECGISIEGVNTPYLFGMWKTTFAWHTEDMDLYSINYLHFGEPSW  
 YAIPPEHGKRLERLAQGFPPSSSQGDAFLRHKMTLISPSVLKKGIPFDKITQEAGEFMITFPYGYHAG  
 FNHGFNCAESTNFATVRWIDYGKVAKLCTCRKDMVKISMDIFVRKFQPDYQLWKQKDIYIDHTKPTP  
 ASTPEVKAWLQRRRVRKASRSFQCARSTSKRPKADEEEVSDEVDGAEVPNPDSVTDDLKVSEKSEAAV  
 KLRNTEASSEESSASRMQVEQNLSDHIKLSGNSCLSTSVTEDIKTEDDKAYAYRSVPSISSEADDSIPL  
 SSGYEKPEKSDPSEL SWPKSPESCSSVAESNGVLTEGEESDVESHNGLEPGEIPAVPSGERNSFKVPSI  
 AEGENKTSKSWRHPLSRPPARSPMTLVKQQAPEDEELPEVLSIEEEVEETESWAKPLIHLWQTKSPNFAA  
 EQEYNATVARMKPHCAICTLLMPYHKPDSNEENDARWETKLDEVVTSEGKTKPLIPEMCFIYSEENIEY  
 SPPNAFL EEDGTSLLISCAKCCVRVHASCYGIPSHIEICDGLWCARCKRNAWTAECCLCNLRGGALKQTKN  
 NKWAHVMCVAVPEVRFNTVPERTQIDVGRIPQLRKLKCIFCRHRVKRVSGACIQCSYGRCPASFHVTC  
 AHAAGVLMPEDDWPYVNIITCFRHKVNPVNVKSKACEKVISVGQTVITKRNTRYYSRVMVAVTSQTFYEV  
 MFDDGSFSDRTPEDIVSRDCLKLGPPEAGEVVQKWPDKLYGAKYFGSNI AHMYQVEFEDGSQIAMKR  
 EDIYTLDEELPKRVKARFVSAGRCHLGTQCQVNSLSSPHVSAQQEYTLGFWINSKKSQCNIPLSGTY

TRTRPLE – GFP Tag – V

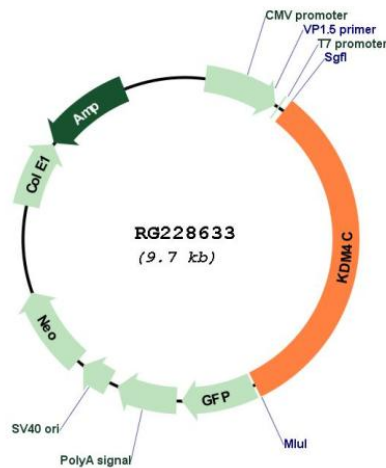
**Restriction Sites:**

Sgfl-Mlul

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001146694.1</a></u> , <u><a href="#">NP_001140166.1</a></u>
<b>RefSeq Size:</b>	4616 bp
<b>RefSeq ORF:</b>	3144 bp
<b>Locus ID:</b>	23081
<b>Cytogenetics:</b>	9p24.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]