

Product datasheet for **RG203881**

KMT5C (NM_032701) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KMT5C (NM_032701) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KMT5C
Synonyms:	Suv4-20h2; SUV420H2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203881 representing NM_032701
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCGACAGAGTGACAGCACGAGAAGTGTGCGAGAACGACGACCTGGCCACCAGCCTCGTCCTGG
 ACCCCTACCTCGTTTCCGCACCCATAAGATGAACGTCAGCCCTGTGCCCCCTCGGGCGACAGCAGCA
 CCTGCGCTCAGCGCTGGAACTTTCCTGAGGCAGCGGGACCTGGAGGCTGCGTACCGGGCCCTGACGCTG
 GGAGGCTGGACGGCCCGTACTTCCAGAGCCGGGGCCCGCGGCAGGAGGCTGCCCTCAAGACCCACGTCT
 ATCGCTACCTCCGTGCCTTCTGCCGAAAGTGGCTTTACCATCCTGCCCTGCACGCGCTACTCCATGGA
 GACCAACGGGGCCAAGATCGTGTCCACTCGTCTTGGAAAAGAATGAGAAGCTGGAGCTGCTGGTGGGC
 TGCATTGCAGAGCTGCGGGAGGCAGATGAGGGGCTGCTGAGGGCCGGTGAAGTACTTCAGCATCATGT
 ACTCAACCCGCAAGCGGAGTGTCTAGCTGTGGCTGGGCCAGCCGCTTCAACCATGACTGCAAAC
 CAACTGCAAGTTTGTGCCTGCAGATGGGAACGCAGCCTGCGTGAAGGTGCTCCGGGACATTGAGCCTGGG
 GACGAGGTGACATGCTTCTACGGCGAGGGCTTCTTCGGCGAGAAGAATGAGCACTGTGAATGCCACACCT
 GTGAGAGGAAAGGTGAAGGAGCTTCCGAACCAGGCCTAGGGAGCCCGCTTGGCCACCACGGCCCTGGA
 CAAGTACCAGCTGCGTGAGACCAAGCGGCGGTGCAGCAAGGCCTGGACAGTGGCAGCCGACAGGGCCTG
 CTGGGCCCTCGGGCCTGCGTGCACCCATCCCGCTGCGCCGGGACCCATTCTGCGCCGCTGCCAGCCCC
 TGCGCCTGCCAGCCTGCAGCGCCCGCCAGACCTCACCCCTCTGGCTCCAGTGGCTGCCTCAGCCCCA
 GCCCGAGTGGGCCCCGGAAGCGCCGACGCCCCGGCCCCGAGGGCCCCAGTGTCTCCACCCACCAC
 GCTGCCCGCTCTCCCTGCACCGATGGGAGGCTGTGGCCCCACTGCCGCTGCGAGGAGAGGCCCTGG
 TGGCCCCGGCCAGCCCCACGCCCCGCTGGGCCCTCAGCAGGACTGGCACTGGGCCCGGCGCTATGG
 GCTGCCTTACGTGGTGCCTGTGACCTTCGTGCGCTGGCCCCAGCCCCACAGTACCCAGCCCCCTGCT
 GGGACCCAGGCCCATCCTGATCCCGAAGCAGGCCCTCGCCTTCGCCCCCTTCTCCCCACCAAGCGCC
 TACGGCTGGTGGTCAAGCACGGCTCCATCGACCTGGATGTGCGCGGTGAAGAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG203881 representing NM_032701
 Red=Cloning site Green=Tags(s)

MGPDRVTAARELCENDDLATSLVLDPYLGFRTHKMNVSPVPLRRQQLRSLALETFLRQRDLEAAYRALTL
 GGWTARYFQSRGPRQEALKTHVYRYLRAFLPESGFTILPCTRYMETNGAKIVSTRAWKKNEKLELLVG
 CIAELREADEGLLRAGENDFSIMYSTRKRSACLWLGPAAFINHCKPNCKFVPADGNAACVKVLRDIEPG
 DEVTCFYGEGFFGEKNEHCEHTCERKGEFAFTRPREPALPPRPLDKYQLRETKRRLQQGLDSGSRQGL
 LGPRACVHPSPLRRDPFCAACQPLRLPACSARPDTSPLWLQWLPQPQPRVPRKRRRPRRRAPVLSHH
 AARVSLHRWGGCGPHCLRGEALVALGQPPHARWAPQQDWHWARRYGLPYVVRVDLRRLLAPAPPATPAPA
 GTPGPILIPKQALAFAPFSPPKRLRLVSHGSIDLVDVGGEEL

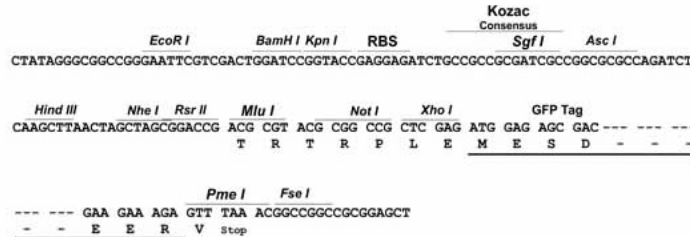
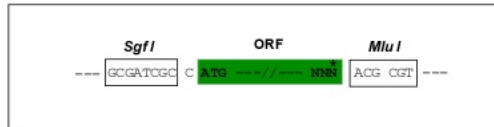
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


ACCN: NM_032701

ORF Size: 1386 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_032701.4](#)
RefSeq Size: 2297 bp

RefSeq ORF: 1389 bp

Locus ID: 84787

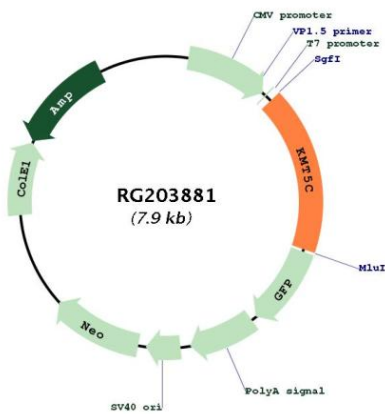
UniProt ID: [Q86Y97](#)
Cytogenetics: 19q13.42

Protein Families: Druggable Genome

Protein Pathways: Lysine degradation

Gene Summary: SUV420H2 and the related enzyme SUV420H1 (MIM 610881) function as histone methyltransferases that specifically trimethylate nucleosomal histone H4 (see MIM 602822) on lysine-20 (K20) (Schotta et al., 2004 [PubMed 15145825]).[supplied by OMIM, Dec 2009]

Product images:



Circular map for RG203881