

Product datasheet for MR216281

Kmt5b (NM_001167888) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5b (NM_001167888) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kmt5b
Synonyms:	AA117471; C630029K18Rik; Suv4-20h1; Suv420h1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216281 representing NM_001167888 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAAACGC
CGTTGAGAGGGCGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC
TCTGGAATGTCCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTCTTGATCCCTACT
TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCTTCGAGGAGCTCGAGGCATATTTCAAAGC
TGACAGTTTTTCTCAACAACATCTGTGAGATTTGCGCCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA
GTAATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGGG
CACGGCATTATTTTCTCAACAAAAACAAAATGCAGGAGAAATATTCAAGGAACATGTCTTTATTTACTT
GCGGATGTTTGCAACTGACAGTGGATTTGAAATACTGCCTTGTAATAGATATTCTTCAGAACAAAATGGA
GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGTGTATTGCCG
AACTTTCAGAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTATGATCCAC
AAGGAAAAATTGTGCTCAACTCTGGCTCGTCTGCTGCAATTTATAAATCATGATTGCAGACCTAACTGT
AAGTTTGTGCTCAACTGGTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAA
TTTCTTGTACTATGGAGATGGCTTTTTTGGAGAAAATAATGAGTCTGCGAATGTTATACTTGTGAAAG
G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216281 representing NM_001167888
Red=Cloning site Green=Tags(s)

MKWLGDSKNMVVNRRNGGKLSNDHQNQSKLQQHSGKDTLKTGRNAVERRSSRCHGNSGFEGQSRVYVPS
 SGMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPSRSSRHSKADSFSHNNPVRFRPIKGRQEELKE
 VIERFKKDEHLEKAFKCLTSGEWARHYFLNKNMQEKL FKEHVF IYLRMFATDSGF EILPCNRYSSSEQNG
 AKIVATKEWKRNDKIELLVGCI AELSEIEENMLLRHGENDFSVMYSTRKNCAQLWLGPAAF INHDCRPNC
 KFVSTGRDTACVKALRDI EPGEEI SCY YGDGFF GENNEFCECYTCER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001167888

ORF Size: 981 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_001167888.1](#), [NP_001161360.1](#)

RefSeq Size: 3016 bp

RefSeq ORF: 984 bp

Locus ID: 225888

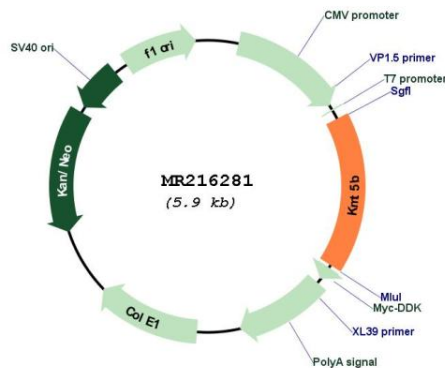
UniProt ID: [Q3U8K7](#)

Cytogenetics: 19 A

MW: 38 kDa

Gene Summary: Histone methyltransferase that specifically trimethylates 'Lys-20' of histone H4. H4 'Lys-20' trimethylation represents a specific tag for epigenetic transcriptional repression. Mainly functions in pericentric heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin in these regions. KMT5B is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2). Plays a role in myogenesis by regulating the expression of target genes, such as EID3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216281