

Product datasheet for **RN202413**

Kmt5b (NM_001108512) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5b (NM_001108512) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kmt5b
Synonyms:	Suv420h1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN202413 representing NM_001108512
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAAGCAAGTTGTCTAATG
 ACCATCAGCAGAATCAATCCAAATTACAGCACGGGGCAAGGACGCCCTGAAGACTGGCAGAAACGCTGT
 TGAGAGGCGGCCAACAGATGTCATGGTAACTCGGGATTGAAGGGCAGAGTCGCTATGTGCCATCTCT
 GGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAAGTTGGTCTTGATCCCTATTTAG
 GTTTTCAAACACACAAAATGAACACTAGCGCTTTCTTCGAGGAGCTCGAGACATATTTCAAAGCTGA
 CAGTTTTTCTCACAACAACCTATGAGATTTGACCTATAAAAGGAAGGCAGGAAGAGCTAAAGGAAGTA
 ATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTTAAATGTTTGACTTCAGGTGAATGGGCAC
 GACATTATTTCTCAACAAAAACAAAATGCAGGAGAAATATTCAAAGAACATGTCTTTATTACTTGCG
 GATGTTTGCAACTGACAGTGGATTTGAAATATTGCCTTGAATAGATACTCTTCAGAACAAAATGGAGCC
 AAGATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAATAGAATTACTGGTGGTTGTATTGCCGAAC
 TTTCAGAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTATGATTCCACAAG
 GAAAAATTGTGCTCAACTCTGGCTCGGTCTGCTGCATTATAAATCATGATTGCAGACCTAACTGTAAG
 TTTGTGCAACTGGCCGAGATACAGCATGTGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAATTT
 CTTGTTATTATGGAGATGGGTTTTTTGGAGAAAATAATGAGTTCTGCGAATGTTACACTTGCGAAAGACG
 GGGAACTGGTGTCTTTAAATCACGAGTAGGACTGCCTGCGCTGCTCCTGTTATCAATAGCAAATACGGA
 CTTAGAGAAACAGATAAACGCTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAAGCTCAGACAGTC
 AGTCTGTGAGTCTAATACAGACGCAGACACCCTCAGGAAAAAGACAATGCAACTTTCAACCGAAAGTC
 TTCAGTTGGTGTAAAAAGAACAGCAAGAGCAGAGCACTGACGAGGCAGTCCATGCCAAGAGTCCCAGCG
 GCTTCCAACCTACCTACCTAAGCTAGTGCACATGAACAATTCCAGGGTACCAAAGAACTGAGAAAGC
 CGGCGAAGCCTTTACTTTCCAAGATCAAACTGAGGAATCACTGCAAGCGGCTGGACCAGAAGAGCACATC
 CCGGAAGCTCGAGATGGGAACTTAGTGCTTAAGGAGCCCAAAGTTGTGCTATATAAAAAATTTGCCAATT
 AAGAAAGAGAGGGAGGCAGAGGGACCAGTCCATGCTGCAGTGGGAGTGGGTGCTTGACTAGACATGCTG
 CGAGAGAACACAGGCAGAACCCCTGGGAGAGGTGCTCACTCGCAGGGCAGCAGTTTGCCCTGCACCTACAC
 AACCCGGCGCTCTTTGAGGACAAGGACAGGTCTGAAGGAGACCACTGACATCAAGCTTGACCAAGTCCC
 TTGGATGGCTATAAAAAATGGTATACTGGAACCTTACCCAGACAGTGGCCAGCAGCAACCCAGAGGTGC
 TGAAGAAGTGGCTCCTGAGACTGCTCTCAGGGAGGAAGCATCCCAGGAGTGTCCAAGAGTGACTCCTG
 CCCTTACGAAAGAAATTTGACAAAGGAAACCCGTGAAACACTTAGCAAAGACAGAGGATTGCAGTCCA
 GAGCACAGCTTCCCTGGGAAAGACGGGCTGCCAGATTTGCCAGGGCCCCATCCCAGCAGGGTGAGCCCA
 GTGGCACGGTCAGGGTGCCTGTGAGCTACACAGACTCTGCTCCCTCACCTGTTGGCTGCTCCATTGTAC
 ACCCGACAGCTTCAACAACAAAAGACAGCTTCAAGACTGCACAAAGTAAAAAGAAGCGGGGTCACCAGG
 TACGATGCACAGCTGATCCTAGAGAACAGCTCTGGAATCCCCAAGTTGACGCTTCGCAGGCGGCATGACA
 GCAGCAGCAAGACAAATGACCATGAGAGTGATAGTGTAACTCCTCAAAAATCAGCATCAAGCTCAGCAA
 AGACCATGAAAGTGACAGTAACCTCTATGTTGCAAAGCTTAGCAATGGGTTAGCTCGGGGCCAGGCAGC
 AGCTCTACTAAGCTCAAGATTCAACTCAAGCGGGATGAGGAGAGCAGGGGCCATGTGCAGAAGGGCTTC
 ATGAGAACGGTGTGCTGCAAGTACCCCTGTCCCTGCTAGAGTCCCAGATGGAGTGGATGACTATAG
 TCAGTATGAGGAGGACAGCACAGATGACTCGTCACTCTTCTGAGGGGGAGGAGGAAGAGGAGGACTGTGAG
 GATGACTTCGATGATGACTTCATCCCTCTTCTCCCGCAAAGCGGCTGAGGCTAATTGTTGGTAAAGACT
 CCATAGATATCGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTCTAAGACTGAACGCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001108512
Insert Size: 2652 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_001108512.1 , NP_001101982.1
RefSeq Size:	6096 bp
RefSeq ORF:	2652 bp
Locus ID:	361688
UniProt ID:	P0C2N5
Cytogenetics:	1q43
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 (By similarity). [UniProtKB/Swiss-Prot Function]