

Product datasheet for **RN205798**

Kmt5c (NM_001107475) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5c (NM_001107475) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kmt5c
Synonyms:	Suv420h2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN205798 representing NM_001107475
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCCTGACCGAGTGACAGCCCGAGAAGTGTGCGAGAATGATGACCTGGCCACCAGCCTTGTCTTG
 ACCCTACCTCGGCTTCGACCCATAAGATGAATGTCAGCCCTGTGCCACCCTCCGACGACAACACCA
 CCTTCGCTCAGCACTGGAAGCTTTCCTAAGGCAACGGGACCTGGAAGCTGCATTCGGGGCCCTGACACTG
 GGAGGCTGGATGGCCACTACTTTCAGAACCGTCTCCTCGGCAGGAGGCTGCCCTCAAGAACCACATTT
 TTTGCTACCTCCGCGCTTCTGCTGAGAGTGGCTTACCATTCTGCCCTGCACCCGCTACTCCATGGA
 GACCAATGGGGCAAGATTGTGTCTACCCGTGCTTGAAGAAGAATGAGAAGCTGGAGCTGCTGGTGGGC
 TGCATTGCAGAGCTGCGGAAGAGGATGAATACCTACTTAGGGCAGGCGAGAACGACTTCAGCGTCATGT
 ACTCCACTCGAAAAGGAGTGCCAGCTGTGGCTTGGCCAGCTGCCTTATCAACCATGACTGCAAACC
 CAACTGCAAGTTTGTGCCCTCAGATGGAATACTGCCTGTGTGAAGGTGCTACGGGACATTGAGCCGGGG
 GATGAAGTAACTTGTCTATGGCGAGGGCTTCTTCGGTGAGAAGAATGAGCACTGTGAATGCTATACCT
 GTGAGAGGAAAGGCGAGGGAGCTTTCAGACTTCAGCCAGGGAGCCGGAGCTGAGGCCACGGCCCTGGA
 CAAGTATGAGCTCCGAGAGACAAAGAGGCGTCTGCAGCAGTGTGGACAGCAGCCAGCAGAACCCTGCTG
 AGCCTGCGGGCTGCTCCACCTGTCCCACTGCGCCCTGACCCATTCTGTGCTGCTGCCAGCCCTCAT
 GCCTGTGCTGTGAGTCCACATGGACTACTTGCCCTCTGGCTCCAGTGGGTGCCTCAGCCCAAGCC
 CAGAGTACGTCCCGGAAGCGCCGCGTTCGCGCCGCGCTCGCCCAAGGATACCCAGGCTTCATTGTCC
 CCTGACCTGCACACTGCCTGTGTATCCCTACACCGATGGGAGGCTGTGGTCCCACTGCCAACTACGGG
 CTGAGGCCATGGTGACCCTACACCTGCTCCCCAGACTCGTGGACCCCAAAACAGGACTGGTATGGGC
 CCGACGCTATGGGCTACCTTCTGTGGTGGCGTTGAACTTCCCTCTAGCCCAAGCCCTACCAGCTGCT
 CCTGCTCCTGCTGGAACTAGGTCCCACCCCAACCCCTGACCTCATACCTAAACAGGCCCTTGCCTTCG
 CTCCTTCTGCCACCTAAGCGCTCCGGCTAGTGGTCAGCCATGGTTCTATTGATCTGGACATCAATAG
 TGGTGAGCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001107475

Insert Size: 1413 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:

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_001107475.1](#), [NP_001100945.1](#)

RefSeq Size: 2411 bp

RefSeq ORF: 1413 bp

Locus ID: 308345

UniProt ID: [P0C2N6](#)

Cytogenetics: 1q12

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).[UniProtKB/Swiss-Prot Function]