

Product datasheet for **RR205798**

Kmt5c (NM_001107475) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR205798 representing NM_001107475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCCTGACCGAGTGACAGCCCGAGAAGTGTGCGAGAATGATGACCTGGCCACCAGCCTTGTCTTG
 ACCCTACCTCGCTTCCGACCCATAAGATGAATGTCAGCCCTGTGCCACCCTCCGACGACAACACCA
 CCTTCGCTCAGCACTGGAAGCTTTCCTAAGGCAACGGGACCTGGAAGCTGCATTCGGGGCCCTGACACTG
 GGAGGCTGGATGGCCACTACTTTCAGAACCGTCTCCTCGGCAGGAGGCTGCCCTCAAGAACCACATTT
 TTTGCTACCTCCGCGCTTCTGCTGAGAGTGGCTTACCATTCTGCCCTGCACCCGCTACTCCATGGA
 GACCAATGGGGCCAAGATTGTGTCTACCCGTGCTTGAAGAAGAATGAGAAGCTGGAGCTGCTGGTGGGC
 TGCATTGCAGAGTGGGGAAGAGGATGAATACCTACTTAGGGCAGGCGAGAACGACTTCAGCGTCATGT
 ACTCCACTCGAAAAGGAGTGCCAGCTGTGGCTTGGCCAGCTGCCTTTATCAACCATGACTGCAAACC
 CAACTGCAAGTTTGTGCCCTCAGATGGAATACTGCCTGTGTGAAGGTGCTACGGGACATTGAGCCGGGG
 GATGAAGTAACTTGCTTCTATGGCGAGGCTTCTTCGGTGAGAAGAATGAGCACTGTGAATGCTATACCT
 GTGAGAGGAAAGGCGAGGGAGCTTTCAGACTTCAGCCAGGGAGCCGGAGCTGAGGCCACGGCCCTGGA
 CAAGTATGAGCTCCGAGAGACAAAGAGGCGTCTGCAGCAGTGTGGACAGCAGCCAGCAGAACCTGCTG
 AGCCTGCGGGCCTGCTCCACCTGTCCCACTGCGCCCTGACCCATTCTGTGCTGCTGCCAGCCCTCAT
 GCCTGTGCTGTGAGTCCACATGGACTACTTGCCCTCTGGTCCAGTGGGTGCCTCAGCCCGACCC
 CAGAGTACGTCCCGGAAGCGCCCGCTCGCCGCCCGCTCGCCCGAGGATACCCAGGCTTCATTGTCC
 CCTGACCTGCACACTGCCTGTGTATCCCTACACCGATGGGAGGCTGTGGTCCCACTGCCAACTACGGG
 CTGAGGCCATGGTGACCCTACACCTGCTCCCACTGCTGGACCCCAAAACAGGACTGGTATGGGC
 CCGACGCTATGGGCTACCTTCTGTGGTGGCGTTGAACCTTCCCTCTAGCCCGAGCCCTACCAGCTGCT
 CCTGCTCTGCTGGAACTAGGTCCCACCCCAACCCCTGACCTCATACCTAAACAGGCCCTTGCCTTCG
 CTCCTTTCTGCCACCTAAGCGCTCCGGCTAGTGGTCAGCCATGGTTCTATTGATCTGGACATCAATAG
 TGGTGAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205798 representing NM_001107475
 Red=Cloning site Green=Tags(s)

MGPDRVTAARELCENDDLATSLVLDPYLGFRTHKMNVSPVPTLRRQHLRSALAEFLRQRDLEAAFRALTL
 GGWMAHYFQNRAPRQEAAALKNHIFCYLRAFLPESGFTILPCTRYMETNGAKIVSTRAWKKNEKLELLVG
 CIAELREDEYLLRAGENDFSVMYSTRKRSQWLGPAAFINHDKPNCKFVPSDNTACVKVLRDIEPG
 DEVTCFYGEGFFGEKNEHCECYTCERKGEFRLQPREPELRPRPLDKYELRETKRRLQQCLDSSSQNLL
 SLRACSHLSPLRPDPFCAACQPSCLLPVSPHMDYLPWLQWVPQPQPRVPRKRRRRRRRRPRIPQASLS
 PDLHTACVSLHRWGGCGPHCQLRAEAMVTLHLLPQTRWTPKQDWYWARRYGLPSVVRVELSPLAPALPAA
 PAPAGNLGPTPTDLIPKQALAFAPFCPPKRLRLVSHGSIDLIDINSSEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

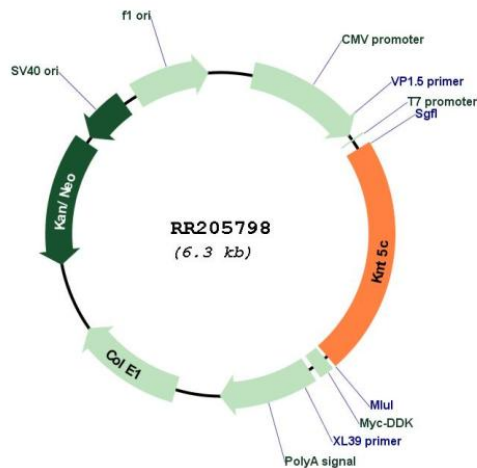
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001107475

ORF Size:

1410 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_001107475.1](#), [NP_001100945.1](#)

RefSeq Size: 2411 bp

RefSeq ORF: 1413 bp

Locus ID: 308345

UniProt ID: [P0C2N6](#)

Cytogenetics: 1q12

MW: 53.6 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).[UniProtKB/Swiss-Prot Function]