

Product datasheet for **MG216447**

Kmt5c (NM_001115018) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5c (NM_001115018) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kmt5c
Synonyms:	BC024816; Suv4-20h2; Suv420h2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216447 representing NM_001115018 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCAATGGGGCCAAGATTGTGTCTACCCGTGCTTGAAGAAGAATGAGAAGCTGGAGCTGCTGG
TGGGCTGCATTGCAGAGCTGCGTGAAGAGGATGAAGACCTGCTTAGGGCCGGTGAGAACGACTTCAGCAT
CATGTACTCCACCCGAAAAGGAGTGCCAGCTGTGGCTTGGCCAGCTGCCTTCATCAACCATGACTGC
AAACCAACTGCAAGTTTGTGCCCTCAGATGGGAATACTGCCTGTGTGAAGGTGTACGGGACATTGAGC
CAGGGGATGAAGTGACTTCTTATGGTGAGGGCTTCTTCGGCGAGAAGAATGAGCACTGTGAATGCTA
TACCTGTGAGAGGAAAGCGAGGGAGCTTTCAGACTTCAGCCCAGGGAGCCTGAGCTGCGACCAAAGCCC
CTAGACAAGTATGAGCTCCGAGAGACAAAGAGGCGTCTGCAGCAGGGCTTGGTCAGCAGCCAGCAGAGCC
TGATGAGCCGGTGGGCTGCTCCACCTGTCCCACTGCGCCCTGACCCATTCTGTGCTGCCTGCCAGCC
CTCATGCCTGCTGCCTGCCAGCCCCACATGGATTACTTGCCCTTTGGCTCCAGCGGGCGCCTCAACCC
CAGCCCATAGTACCTCCAGGAAGCGCCACCGCCGCCGCCAGGATCCGCCAGGCTTCATTGCCTC
CTGTCTCCGCACTGCCTGTGTCCCTGCACCGATGGGAGGCTGTGGTCCCACTGCCAGCTACGTGC
TGAGGCCATGGTGACCTACACCTGCGCCCCAGACTCGCTGGACCCACAACAGGACTGGTACTGGGCC
CGGCGCTATGGGCTACCTTCTGTGGGGCGTGTGGAACCTACCCGCCTAGCCCCAGCCCTGCCAGCTGCTC
TGCCCCCTGCTGGGAACCCAGGTCTGTCCCACTCCTGATTTTCATCCCTAAGCAGGCCCTTGCCTTTGC
TCCGTTCTGCCACCTAAGCGCCTCCGGCTAGTGGTCAGTCATGGTTCTATTGATCTGGACATCAATAGT
GGTGAGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216447 representing NM_001115018
 Red=Cloning site Green=Tags(s)

METNGAKIVSTRAWKKNEKLELLVGCIAELREDEEDLLRAGENDFSIMYSTRKRSACLWLGPAAFINHDC
 KPNCKFVPSDGNACVKVLRDIEPGDEVTCFYGEGFFGEKNEHCCEYTCERKGEAFRLQPREPELRPKP
 LDKYELRETKRRLQOGLVSSQQLMSRWACSHLSPLRPDPFCAACQPSCLLPASPHMDYLPWLQRAPQP
 QPIVPPRKRHRRRRPRIRQASLPPVLRACVPLHRWGGCGPHCQLRAEAMVTLHLRPQTRWTPQQDWYWA
 RRYGLPSVGRVELTRLAPALPAAPAPAGNPGVPVTPDFIPKQALAFAPFCPPKRLRLVSHGSIIDLINS
 GEP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001115018

ORF Size: 1404 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_001115018.1](#), [NP_001108490.1](#)

RefSeq Size: 2191 bp

RefSeq ORF: 1407 bp

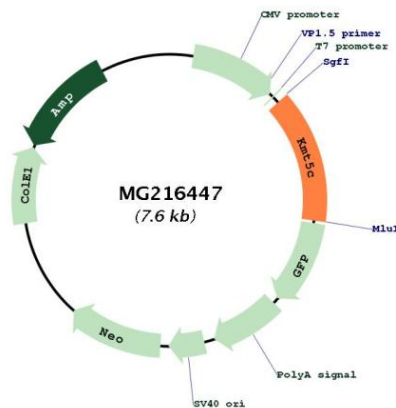
Locus ID: 232811

UniProt ID: [Q6Q783](#)

Cytogenetics: 7 A1

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. KMT5C is targeted to histone H3 via its interaction with RB1 family proteins (RB1, RBL1 and RBL2).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216447