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Product datasheet for MR205370

Kmt5c (NM_146177) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5c (NM_146177) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kmt5c
Synonyms:	BC024816; Suv4-20h2; Suv420h2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205370 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACCAATGGGGCCAAGATTGTGTCTACCCGTGCTTGGAAGAAGAATGAGAAGCTGGAGCTGCTGG
TGGGCTGCATTGCAGAGCTGCGTGAAGAGGATGAAGACCTGCTTAGGGCCGGTGAGAACGACTTCAGCAT
CATGTACTCCACCCGAAAAAGGAGTGCCCAGCTGTGGCTTGGCCCAGCTGCCTTCATCAACCATGACTGC
AAACCCAACTGCAAGTTTGTGCCCTCAGATGGGAATACTGCCTGTGTGAAGGTGCTACGGGACATTGAGC
CAGGGGATGAAGTGACTTGCTTCTATGGTGAGGGCTTCTTCGGCGAGAAGAATGAGCACTGTGAATGCTA
TACCTGTGAGAGGAAAGGCGAGGGAGCTTTCAGACTTCAGCCCAGGGAGCCTGAGCTGCGACCAAAGCCC
CTAGACAAGTATGAGCTCCGAGAGACAAAGAGGCGTCTGCAGCAGGGCTTGGTCAGCAGCCAGCAGAGCC
TGATGAGCCGGTGGGCCTGCTCCCACCTGTCCCCACTGCGCCCTGACCCATTCTGTGCTGCCTGCCAGCC
CTCATGCCTGCTGCCTGCCAGCCCCCACATGGATTACTTGCCCCTTTGGCTCCAGCGGGCGCCTCAACCC
CAGCCCATAGTACCTCCCAGGAAGCGCCACCGCCGCCGCCGCCCCAGGATCCGCCAGGCTTCATTGCCTC
CTGTCCTCCGCACTGCCTGTGTCCCCCTGCACCGATGGGGAGGCTGTGGTCCCCACTGCCAGCTACGTGC
TGAGGCCATGGTGACCCTACACCTGCGCCCCCAGACTCGCTGGACCCCACAACAGGACTGGTACTGGGCC
CGGCGCTATGGGCTACCTTCTGTGGGGCGTGTGGAACTTACCCGCCTAGCCCCAGCCCTGCCAGCTGCTC
CTGCCCCTGCTGGGAACCCAGGTCCTGTCCCCACTCCTGATTTCATCCCTAAGCAGGCCCTTGCCTTTGC
TCCGTTCTGCCCACCTAAGCGCCTCCGGCTAGTGGTCAGTCATGGTTCTATTGATCTGGACATCAATAGT
GGTGAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

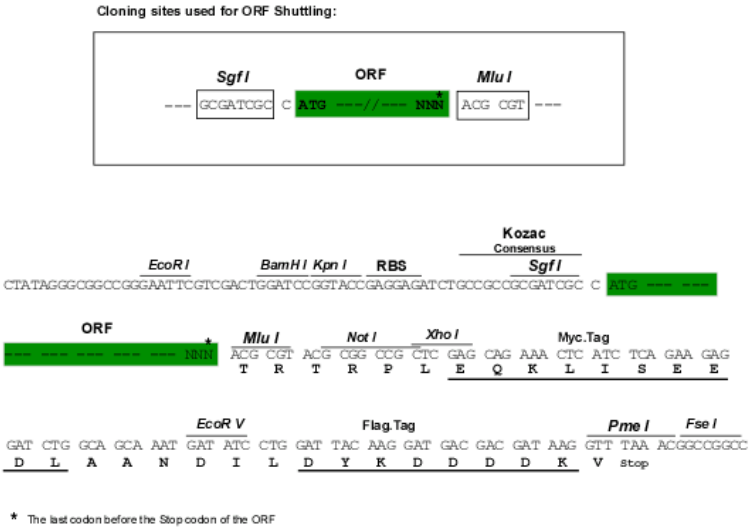
>MR205370 protein sequence
Red=Cloning site Green=Tags(s)

METNGAKIVSTRAWKKNEKLELLVGCIAELREEDEDLLRAGENDFSIMYSTRKRSAQLWLGPAAFINHDC
KPNCKFVPSDGNTACVKVLRDIEPGDEVTCFYGEGFFGEKNEHCECYTCERKGEGAFRLQPREPELRPKP
LDKYELRETKRRLQQGLVSSQQSLMSRWACSHLSPLRPDPFCAACQPSCLLPASPHMDYLPLWLQRAPQP
QPIVPPRKRHRRRRPRIRQASLPPVLRTACVPLHRWGGCGPHCQLRAEAMVTLHLRPQTRWTPQQDWYWA
RRYGLPSVGRVELTRLAPALPAAPAPAGNPGPVPTPDFIPKQALAFAPFCPPKRLRLVVSHGSIDLDINS
GEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146177

ORF Size: 1062 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_146177.1, NP_666289.1

RefSeq Size: 2240 bp

RefSeq ORF: 1407 bp

Locus ID: 232811

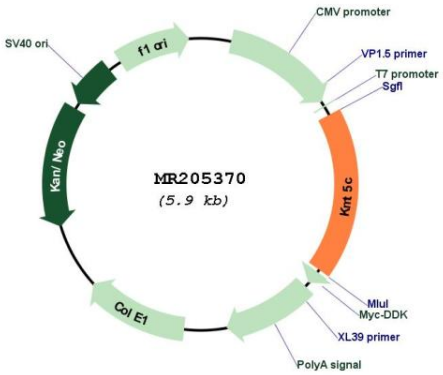
UniProt ID: Q6Q783

Cytogenetics: 7 A1

MW: 39.9 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. 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 MR205370