

## Product datasheet for MC210666

### Kmt5a (NM\_030241) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5a (NM_030241) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kmt5a
Synonyms:	2410195B05Rik; AA617402; AW536475; PR-SET7; PR/SET07; Setd8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210666 representing NM_030241 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTAGAGGCAGGAAGATGTGCAAGCCCCGCGCGGTGGAGGCGGCGGGCGGGCGGTGGCGGCGACGG  
CCCCGGGCCCGGAGATGGTGGAGCAGAGGGGCCCGGGAGGCCCGCAGCGACGGGGAGAACGTGTTTGC  
TGGGCAGTCAAAGATCTATGCCTACATGAGTCCGAACAAGTGCTGCAATGCGCTCTCCACTTCAGGAA  
GAGAACTCGTTGCCATCATGAGGTCAAATGCCCGGGAAACCATTAGCTGGAATCTACAGGAAGCGAG  
AAGAGAAAAGGAACACCGGGAACGTTATACGAAGCGCTGTGAAGTCAGATGAACAGAAGAGCAAAGACAC  
CAGGAGAGGTCCCCTGGCGCCTTTTCAAACCAAAAATCCGAAGCAGCAGAACCTCCAAAACTCCACCC  
CCATCATGTGATTCTACCAATGTAGCAGTCGCTAAGCAAGCCCTGAAAAAGTCCCTCAAGGGCAAACAGG  
CCCCTCGGAAAAAGTCTCAAGGGAAAAACCAGCAGAATAGAAAATCACAGATTTCTACCCTGTGCGGAG  
GAGTTCGGGAAGAGCAAAGCTGAGCTGCAGTCTGAAGAAAGGAAGAAAATAGATGAGCTGATTGAGAGC  
GGGAAGGAAGAAGGCATGAAGATTGATCTAATTGATGGCAAAGGCAGGGGTGTGATCGCTACCAAGCAGT  
TCTCCAGGGGAGACTTTGTGGTAGAATACCATGGGACCTCATTGAAATCACTGATGCCAAGAAGCGGGA  
GGCTCTGTACGCACAGGACCCCTCCACTGGCTGCTACATGTACTATTTTCAGTATCTGAGCAAAACCTAC  
TGCGTGGATGCCACTCAAGAAACGAACCGCCTAGGGAGACTCATCAATCACAGTAAGTGTGGGAACCTGCC  
AGACCAAACTGCACGACATCGACGGCGTGCCTCACCTCATCCTCATCGCCTCCCGAGACATCGCAGCTGG  
GGAGGAGCTCCTGTACGACTATGGGGACCGAAGCAAGGCCTCCATCGAAGCCTACCCCTGGCTGAAGCAC  
TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja3487\\_g01.zip](https://cdn.origene.com/chromatograms/ja3487_g01.zip)



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_030241
<b>Insert Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_030241.3</a> , <a href="#">NP_084517.2</a>
<b>RefSeq Size:</b>	2738 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	67956
<b>UniProt ID:</b>	<a href="#">Q2YDW7</a>
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	<p>Protein-lysine N-methyltransferase that monomethylates both histones and non-histone proteins. Specifically monomethylates 'Lys-20' of histone H4 (H4K20me1). H4K20me1 is enriched during mitosis and represents a specific tag for epigenetic transcriptional repression. Mainly functions in euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. Required for cell proliferation, probably by contributing to the maintenance of proper higher-order structure of DNA during mitosis. Involved in chromosome condensation and proper cytokinesis. Nucleosomes are preferred as substrate compared to free histones. Mediates monomethylation of p53/TP53 at 'Lys-382', leading to repress p53/TP53-target genes. Plays a negative role in TGF-beta response regulation and a positive role in cell migration (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>