

## Product datasheet for **MC212766**

### **Kmt5b (NM\_001167889) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kmt5b (NM\_001167889) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kmt5b  
**Synonyms:** AA117471; C630029K18Rik; Suv4-20h1; Suv420h1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212766 representing NM\_001167889  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG  
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAAACGC  
 CGTTGAGAGGCGGTCCAGCAGATGTCATGGTAACCTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC  
 TCTGGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT  
 TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCCTTCGAGGAGCTCGAGGCATATTTCAAAGC  
 TGACAGTTTTTCTCACAACAATCCTGTGAGATTTCCGGCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA  
 GTAATTGAACGCTTAAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGGG  
 CACGGCATTATTTCTCAACAAAAACAAAATGCAGGAGAAATTATTCAAGGAACATGTCTTTATTTACTT  
 GCGGATGTTTGCAACTGACAGTGGATTTGAAATACTGCCTTGTATAGATATTCTTCAGAACAAAATGGA  
 GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGTTGTATTGCCG  
 AACTTTCAGAAATTGAGGAGAACATGCTACTTAGACCGGAGAAAACGACTTCAGTGTCTATGATTTCCAC  
 AAGGAAAAATTGTGCTCAACTCTGGCTCGGTCTGCTGATTTATAAATCATGATTGCAGACCTAACTGT  
 AAGTTTGTGCAACTGGTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAA  
 TTTCTTGTACTATGGAGATGGCTTTTTGGAGAAAATAATGAGTTCTGCGAATGTTATACTTGTGAAAAG  
 ACGGGGAAGTGGTCTTTTAAATCACGAGTAGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAATAC  
 GGACTTAGAGAAACAGATAAACGCTTAAATAGGCTTAAAAAGTTAGTGACAGCAGCAAAAACCTCAGACA  
 GTCAGTCTGTGAGCTCTAACACAGATGCAGACACCCTCAGGAAAAGACAATGCAAGTAAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001167889
<b>Insert Size:</b>	1185 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>	<u>NM_001167889.1, NP_001161361.1</u>
<b>RefSeq Size:</b>	3290 bp
<b>RefSeq ORF:</b>	1185 bp
<b>Locus ID:</b>	225888
<b>UniProt ID:</b>	<u>Q3U8K7</u>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	<p>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). Plays a role in myogenesis by regulating the expression of target genes, such as EID3.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, the 3' UTR, and the 3' coding sequence compared to variant 1. The resulting isoform (c) has a shorter and distinct C-terminus compared to isoform a.</p>