

## Product datasheet for **MC222398**

### **Kmt5b (NM\_001167887) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kmt5b (NM_001167887) 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



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**Fully Sequenced ORF:** >MC222398 representing NM\_001167887  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG  
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGCAGAAACGC  
 CGTTGAGAGGCGGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC  
 TCTGGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT  
 TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCTTCGAGGAGCTCGAGGCATATTTCAAAGC  
 TGACAGTTTTTCTACAACAATCCTGTGAGATTTGCGCCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA  
 GTAATTGAACGCTTAAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGGG  
 CACGGCATTATTTCTCAACAAAAACAAAATGCAGGAGAAATTATCAAGGAACATGTCTTTATTTACTT  
 GCGGATGTTTGAACGACAGTGGATTTGAAATACTGCCTTGTAATAGATATTCTTCAGAACAAAATGGA  
 GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCG  
 AACTTTCAGAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTATGTATTCCAC  
 AAGGAAAAATTGTGCTCAACTCTGGCTCGGTCTGCTGCATTTATAAATCATGATTGCAGACCTAACTGT  
 AAGTTTGTGCAACTGGTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAA  
 TTTCTTGTACTATGGAGATGGCTTTTTTGGAGAAAATAATGAGTTCTGCGAATGTTATACTTGTGAAA  
 ACGGGGAACTGGTCTTTTAAATCAGGAGTAGGACTGCCTGCGCCTGCTCCTGTTATCAATAGCAAAATC  
 GGACTTAGAGAAACAGATAAACGCTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAATCAGACA  
 GTCAGTCTGTGAGCTTAACACAGATGCAGACCACTCAGGAAAAAGACAATGCAACTTCAATCGAAA  
 ATCTTCAGTTGGTGTGAAAAAGAGCAGCAAGAGTCGAGCTCTGACAAGGCCGTCCATGCCGAGAGTCCCG  
 GCTGCTTCCAACCTACCTCACCAAGCTAGTGCACACCAACAATCCCGGGTACCAAAGAAACTGAGAA  
 AGCCGGCAAAGCCTTTACTCTCCAAGATCAGACTGCGGAATCACTGCAAGCGGCTGGACCAGAAGAGCGC  
 ATCCCGCAAGCTCGAGATGGGGAGCTTAGTGCTTAAGGAGCCCAAAGTCGTGCTATATAAAAAATTTGCCA  
 ATTAAGAAAGAAAGGGAGCCAGAGGGACCAGCCCATGCTGCAGTGGGGAGTGGGTGCTTGACTAGACATG  
 CTGCGAGAGAACACAGGCAGAATCATGGGAGAGGTGCTCATTGCGAGGGCAGAGTTGCCCTGCACCTA  
 CACAACCCGGCGCTTTTGGAGACAAGGACAGGTCTGAAGGAGACCACTGACATCAAGCTTGAACCAAGT  
 CCCTTGGATGGCTATAAAAATGGTATACTGGAACCTTGCCAGACAGTGGCCAGCAGCCAACCCAGAGG  
 TGCTGGAAGAAGTGGCTCCTGAGACTGCACACAGGGAGGAAGCATCCAGGAGTGTCCCAAGAAGCAGCTC  
 CTGCTGTACGAAAGAAATTTGACAAGTGAACCTGTGAAACACTTAGCAAAGACCGAGGACTGCAGT  
 CCAGAGCACAGCTTCCCTGGGAAAGACGGGCTGCCAGATTTGCCAGGGTCTCATCTGATCAAGGTGAGC  
 CCAGTGGCACAGTCAGGGTGCCCGTGAGCCACACGGACTCTGCTCCCTCACCGGTTGGCTGCTGTGTTG  
 CGCACCCGACAGCTTACAAAAGACAGCTTCAAACTGCACAAAGTAAAAAGAAGCGGGGTCACCAGG  
 TACGATGCACAGCTGATCCTGGAGAACAGCTCTGGAATCCCAAGCTGACGCTTCGACGGCGGCACGACA  
 GCAGCAGCAAGACAAACGACCATGAGAGTGACGGCGTGAACCTCCTCAAGATCAGCATCAAACCTAGCAA  
 GGACCACGACAGTGACAGCAACCTCTATGTTGCCAAGCTCAGTAACGGGGTCAAGCAGGGCCGGGCGAGC  
 AGCTCCACCAAGCTCAAGATCCAGCTCAAGCGGGATGAGGAGAGCAGGGGGCCATGTGCAGAGGGCCTGC  
 ACGAGAACGGGGTGTGCTGCAGCGACCCCTCTCCTGCTCGAGTCCAGATGGAGGTGGACGACTACAG  
 TCAATATGAGGAGGACAGCACAGATGAATCCTCATCTTCTGAGGGGGAGGAGGAGGAGGACTGCGAG  
 GATGACTTCGATGATGACTTCAATCCTCTTCTCCGGCAAAGCGGCTGAGGCTAATTGTTGGTAAAGACT  
 CCATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTCTAAGACTGAACGCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001167887

<b>Insert Size:</b>	2652 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><a href="#">NM_001167887.1</a></u> , <u><a href="#">NP_001161359.1</a></u>
<b>RefSeq Size:</b>	6071 bp
<b>RefSeq ORF:</b>	2652 bp
<b>Locus ID:</b>	225888
<b>UniProt ID:</b>	<u><a href="#">Q3U8K7</a></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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode isoform a.</p>