

Product datasheet for **MC222189**

Kmt5b (NM_144871) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt5b (NM_144871) 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: >MC222189 representing NM_144871
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAACGC
 CGTTGAGAGGCGGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC
 TCTGGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT
 TAGGTTTTTCAGACACACAAAATGAACACTAGATTTTCGGCCTATAAAAAGGAAGGCAAGAAGAGCTAAAGGA
 AGTAATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGG
 GCACGGCATTATTTCTCAACAAAACAAAATGCAGGAGAAATATTCAAGGAACATGTCTTTATTTACT
 TGCGGATGTTGCAACTGACAGTGGATTTGAAATACTGCCTTGTATAGATATTCTTCAGAACAAAATGG
 AGCCAAGATAGTTGCAACAAAAGAGTGGAAACGAAATGACAAAATAGAATTACTGGTGGGTGTATTGCC
 GAACCTTCAGAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTCAATGTATTCCA
 CAAGGAAAAATTGTGCTCAACTCTGGCTCGGTCCTGCTGCATTTATAAATCATGATTGCAGACCTAACTG
 TAAGTTTGTGCTAACTGGTTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAA
 ATTTCTTGTTACTATGGAGATGGCTTTTTGGAGAAAAAATGAGTTCTGCGAATGTTATACTTGTGAAA
 GACGGGAACTGGTGCTTTTAAATCACGAGTAGGACTGCCTGCGCTGCTCTGTATCAATAGCAAATA
 CGGACTTAGAGAAACAGATAAACGCTTAAATAGGCTTAAAAAGTTAGGTGACAGCAGCAAAAACCTCAGAC
 AGTCAGTCTGTCAGCTCTAACACAGATGCAGACACCCTCAGGAAAAAGACAATGCAACTCTAATCGAA
 AATCTTCAGTTGGTGTGAAAAAGAGCAGCAAGAGTCGAGCTCTGACAAGGCCGCTCATGCCGAGAGTCCC
 GGCTGCTTCCAACCTACCTCACCCAAGCTAGTGCACACCAACAATCCCCGGGTACCAAAGAAAAGTGA
 AAGCCGGCAAAGCCTTTACTCTCCAAGATCAGACTGCGGAATCACTGCAAGCGGCTGGACCAAGAAGAGCG
 CATCCCCGCAAGCTCGAGATGGGAGCTTAGTGCTTAAGGAGCCAAAGTCGTGCTATATAAAAAATTTGCC
 AATTAAGAAAGAAAGGGAGCCAGAGGGACCAGCCATGCTGCAGTGGGAGTGGGTGCTTGACTAGACAT
 GCTGCGAGAGAACACAGGCAGAATCATGGGAGAGGTGCTCATTGCGAGGGCGACAGTTTGCCTGCACCT
 ACACAACCCGGCGCTCTTTGAGGACAAGGACAGGTCTGAAGGAGACCCTGACATCAAGCTTGAACCAAG
 TCCCTTGGATGGCTATAAAAAATGGTATACTGGAACCTTGCCAGACAGTGGCCAGCAGCCAACCCAGAG
 GTGCTGGAAGAACTGGCTCCTGAGACTGCACACAGGGAGGAAGCATCCCAGGAGTGTCCAAGAACGACT
 CCTGCCTGTACGAAAGAAATTTGACAAAGTGAACCTGTGAAACACTTAGCAAAGACCCGAGGACTGCAG
 TCCAGAGCACAGCTTCCCTGGGAAAGACGGGCTGCCAGATTTGCCAGGGTCTCATCCTGATCAAGGTGAG
 CCCAGTGGCACAGTCAAGGTGCCGTGAGCCACACGGACTCTGCTCCCTCACCGTTGGCTGCTCTGTTG
 TCGCACCCGACAGCTTCAAAAAGACAGCTTCAAGACTGCACAAAGTAAAAAGAAGCGCGGGTCAACAG
 GTACGATGCACAGCTGATCCTGGAGAACAGCTCTGGAATCCCCAAGCTGACGCTTTCGAGGCGGCACGAC
 AGCAGCAGCAAGACAAACGACCATGAGAGTACGGCGTGAACCTCCTCAAGATCAGCATCAAACCTCAGCA
 AGGACCACGACAGTGCAGCAACCTCTATGTTGCCAAGCTCAGTAACGGGGTCAAGCAGGGCCGCGGCGAG
 CAGCTCCACCAAGCTCAAGATCCAGCTCAAGCGGGATGAGGAGAGCAGGGGGCCATGTGCAGAGGGCTG
 CACGAGAACGGGGTGTGCTGCAGCGACCCCTCTCCCTGCTCGAGTCCCAGATGGAGGTGGACACTACA
 GTCAATATGAGGAGGACAGCACAGATGAATCCTCATCTTCTGAGGGGGAGGAGGAGGAGGACTGCGA
 GGATGACTTCGATGATGACTTATTCTCTTCTCCCGCAAAGCGGCTGAGGCTAATTGTTGGTAAAGAC
 TCCATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTCTAAGACTGAACGCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_144871
Insert Size: 2583 bp

OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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_144871.4 , NP_659120.3
RefSeq Size:	6062 bp
RefSeq ORF:	2583 bp
Locus ID:	225888
UniProt ID:	Q3U8K7
Cytogenetics:	19 A
Gene Summary:	<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 (3) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 3 and 4 both encode isoform b.</p>