

Product datasheet for **MC212765**

Kmt5b (NM_001167888) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kmt5b (NM_001167888) 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: >MC212765 representing NM_001167888
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAAACGC
CGTTGAGAGGCGGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC
TCTGGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT
TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCCTTCGAGGAGCTCGAGGCATATTTCAAAGC
TGACAGTTTTTCTCACAACAATCCTGTGAGATTTCCGGCCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA
GTAATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGGG
CACGGCATTATTTTCTCAACAAAAACAAAATGCAGGAGAAATTATTCAAGGAACATGTCTTTATTTACTT
GCGGATGTTTGCAACTGACAGTGGATTTGAAATACTGCCTTGTAAATAGATATTCTTCAGAACAAAATGGA
GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGTGTATTGCCG
AACTTTCAGAAATTGAGGAGAACATGCTACTTAGACCGGAGAAAACGACTTCAGTGTCAATGATTTCCAC
AAGGAAAAATTGTGCTCAACTCTGGCTCGGTCTGCTGATTATAAATCATGATTGCAGACCTAACTGT
AAGTTTGTGCAACTGGTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAA
TTTCTTGTACTATGGAGATGGCTTTTTTTGGAGAAAATAAGTCTGCGAATGTTATACTTGTGAAAG
GTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001167888



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Insert Size:	984 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:	<u>NM_001167888.1</u> , <u>NP_001161360.1</u>
RefSeq Size:	3016 bp
RefSeq ORF:	984 bp
Locus ID:	225888
UniProt ID:	<u>Q3U8K7</u>
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 (6) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (d) has a shorter C-terminus compared to isoform a. Variants 6 and 7 both encode isoform d.</p>