

Product datasheet for **MG218821**

Kmt5b (NM_001167884) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kmt5b (NM_001167884) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kmt5b
Synonyms: AA117471; C630029K18Rik; Suv4-20h1; Suv420h1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218821 representing NM_001167884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAACGC
 CGTTGAGAGGGCGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC
 TCTGGAATGTCCGCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTCTTGATCCCTACT
 TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCTTCGAGGAGCTCGAGGCATATTTCAAAGC
 TGACAGTTTTTCTCACAACAATCCTGTGAGATTTTCGGCCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA
 GTAATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGGG
 CACGGCATTATTTTCTCAACAAAAACAAAATGCAGGAGAAATATTCAAGGAACATGTCTTTATTTACTT
 GCGGATGTTTGCAACTGACAGTGGATTTGAAATACTGCCTTGTAATAGATATTCTTCAGAACAAAATGGA
 GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGTGTATTGCCG
 AACTTTCAGAAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTATGATCCAC
 AAGGAAAAATTGTGCTCAACTCTGGCTCGTCTGCTGCATTTATAAATCATGATTGCAGACCTAACTGT
 AAGTTTGTGCAACTGGTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAA
 TTTCTTGTACTATGGAGATGGCTTTTTTGGAGAAAATAATGAGTCTGCGAATGTTATACTTGTGAAAG
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218821 representing NM_001167884
 Red=Cloning site Green=Tags(s)

MKWLGDSKNMNVNRRNGGKLSNDHQNQSKLQQHSGKDTLKTGRNAVERRSSRCHGNSGFEGQSRYPVS
 SGMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPRSRRHISKADSFSHNNPVRFRPIKGRQEELKE
 VIERFKKDEHLEKAFKCLTSGEWARHYFLNKNMQEKLKKEHVF IYLRMFATDSGFEILPCNRYSSSEQNG
 AKIVATKEWKRNDKIELLVGCI AELSEIEENMLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNC
 KFVSTGRDTACVKALRDI EPGEEI SCY YGDGFFGENNEFCECYTCER

TRTRPLE - GFP Tag - V

Restriction Sites:

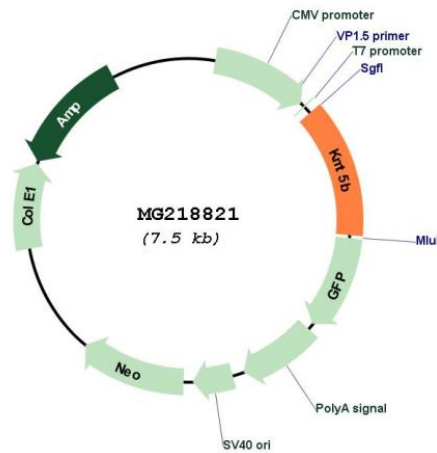
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001167884

ORF Size: 981 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001167884.1 , NP_001161356.1
RefSeq Size:	3318 bp
RefSeq ORF:	984 bp
Locus ID:	225888
UniProt ID:	Q3U8K7
Cytogenetics:	19 A
Gene Summary:	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]