

Product datasheet for **MG218831**

Kmt5b (NM_001167887) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MG218831 representing NM_001167887
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGCAGAAACGC
 CGTTGAGAGGCGGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC
 TCTGGAATGTCCGCCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT
 TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCCTTCGAGGAGCTCGAGGCATATTTCAAAGC
 TGACAGTTTTTCTACAACAATCCTGTGAGATTTGCGCCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA
 GTAATTGAACGCTTAAAGAAAGATGAACACTTAGAGAAAGCTTCAAATGTTGACTTCTGGGGAATGGG
 CACGGCATTATTTCTCAACAAAAACAAAATGCAGGAGAAATTATCAAGGAACATGTCTTTATTTACTT
 GCGGATGTTTGAACGACAGTGGATTTGAAATACTGCCTTGTAATAGATATTCTTCAGAACAAAATGGA
 GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGGTTGTATTGCCG
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 AAGGAAAAATTGTGCTCAACTCTGGCTCGGTCTGCTGCATTTATAAATCATGATTGCAGACCTAACTGT
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 CTGCGAGAGAACACAGGCAGAATCATGGGAGAGGTGCTCATTGCGAGGGCAGAGTTGCCCTGCACCTA
 CACAACCCGGCGCTTTTGGAGACAAGGACAGGTCTGAAGGAGACCACTGACATCAAGCTTGAACCAAGT
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 ACGAGAACGGGGTGTGCTGCAGCGACCCCTCTCCTGCTCGAGTCCAGATGGAGGTGGACGACTACAG
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 GATGACTTCGATGATGACTTCATTCCTCTCCTCCGGCAAAGCGGCTGAGGCTAATTGTTGGTAAAGACT
 CCATAGATATTGACATTTCTTCAAGGAGAAGAGAAGATCAGTCTCTAAGACTGAACGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG218831 representing NM_001167887
 Red=Cloning site Green=Tags(s)

MKWLGDSKNMNVNRRNGGKLSNDHQNQSKLQQHSGKDTLKTGRNAVERRSSRCHGNSGFEGQSRVYVPS
 SGMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPRSRRHISKADSFSHNNPVRFRPIKGRQEELKE
 VIERFKKDEHLEKAFKCLTSGEWARHYFLNKNKMQEKL FKEHVFIYLRFATDSGFEILPCNRYSEQNG
 AKIVATKEWKRNDKIELLVGCI AELSEIEENMLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNC
 KFVSTGRDTACVKALRDI EPGEEI SCY YGDGFFGENNEFC EYTCERRGTGAFKSRVGLPAPAPVINSKY
 GLRETDKRLNRLKKGDSKNSDSQSVSSNTDADTTQEKNATSNRKSSVGVKSSKSRALTRPSMPRV
 AASNSTSPKLVHTNPRVPKLRPAKPLL SKIRLRNHCKRLDQKSASRKLEMGSLVLEKPKVVL YKNLP
 IKKEREPEGPAHA AVGSGLTRHAAREHRQNHGRGAHSQGD SLPCTY TTRRSLRTRTGLKETT DIKLEPS
 PLDGYKNGI LEP CPD SGQQPTPEVLEELAPETAHREEASQ ECPKND SCLSRKKFRQVKPKHLAKTEDCS
 PEHSFPGKGLPDLPGSHPDQGEPSGTVRVPVSH TDSAPSPVGC SVVAPDSFTKDSFRTAQSKKKRRVTR
 YDAQLILENSSGIPKLT LRRRHDS SSKTNDHESDGVNSSKISIKLSKDHDSDSNLYVAKLSNGVSAGPGS
 SSTKLKIQLKRDEESRGPCA EGLHENGVCSDPLS LLESQMEVDDYSQY EEDSTDESSSSEGE EEEEDCE
 DDFDDDFIPLPPAKRRLIVGKDSIDIDISSRRREDQSLRLNA

TRTRPLE - GFP Tag - V

Restriction Sites:

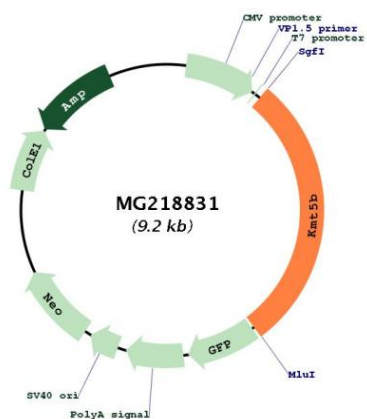
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_001167887
ORF Size:	2649 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_001167887.1 , NP_001161359.1
RefSeq Size:	6071 bp
RefSeq ORF:	2652 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]

Product images:



Circular map for MG218831