

## Product datasheet for **MG216281**

### **Kmt5b (NM\_001167888) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kmt5b (NM\_001167888) 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:** >MG216281 representing NM\_001167888  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGTGGTTGGGAGACTCCAAGAACATGGTGGTGAATGGCAGGAGAAATGGAGGCAAGTTGTCTAATG  
 ACCATCAGCAGAATCAATCAAAATTACAGCAGCACTCGGGCAAGGACACCCTGAAGACCGGCAGAAACGC  
 CGTTGAGAGGGCGGTCCAGCAGATGTCATGGTAACTCGGGATTTGAAGGGCAGAGCCGCTATGTGCCGTCC  
 TCTGGAATGTCCGCAAGGAGCTCTGTGAGAACGATGACTTAGCAACCAGTTTGGTTCTTGATCCCTACT  
 TAGGTTTTTCAGACACACAAAATGAACACTAGCGCCTTTCTTCGAGGAGCTCGAGGCATATTTCAAAGC  
 TGACAGTTTTCTCACAACAATCCTGTGAGATTTTCGGCCTATAAAAGGAAGGCAAGAAGAGCTAAAGGAA  
 GTAATTGAACGCTTTAAGAAAGATGAACACTTAGAGAAAGCTTTCAAATGTTTGACTTCTGGGGAATGGG  
 CACGGCATTATTTCTCAACAAAAACAAAATGCAGGAGAAATTATTCAAGGAACATGTCTTTATTTACTT  
 GCGGATGTTTGCAACTGACAGTGGATTTGAAATACTGCCTTGTAATAGATATTCTTCAGAACAAAATGGA  
 GCCAAGATAGTTGCAACAAAAGAGTGAAACGAAATGACAAAATAGAATTACTGGTGGTGTATTGCCG  
 AACTTTCAGAAAATTGAGGAGAACATGCTACTTAGACACGGAGAAAACGACTTCAGTGTATGATCCAC  
 AAGGAAAAATTGTGCTCAACTCTGGCTCGTCTGCTGCAATTTATAAATCATGATTGCAGACCTAACTGT  
 AAGTTTGTGCAACTGGTCGAGATACAGCATGCGTTAAGGCTCTGAGAGATATTGAACCTGGAGAAGAAA  
 TTTCTTGTACTATGGAGATGGCTTTTTTGGAGAAAATAATGAGTCTGCGAATGTTATACTTGTGAAAG  
 G

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG216281 representing NM\_001167888  
 Red=Cloning site Green=Tags(s)

MKWLGDSKNMNVNRRNGGKLSNDHQNQSKLQQHSGKDTLKTGRNAVERRSSRCHGNSGFEGQSRYPVS  
 SGMSAKELCENDDLATSLVLDPYLGFQTHKMNTSAFPSRSRHISKADSFSHNNPVRFRPIKGRQEELKE  
 VIERFKKDEHLEKAFKCLTSGEWARHYFLNKNMQEKLKKEHVF IYLRMFATDSGFEILPCNRYSSSEQNG  
 AKIVATKEWKRNDKIELLVGCI AELSEIEENMLLRHGENDFSVMYSTRKNCAQLWLGPAAFINHDCRPNC  
 KFVSTGRDTACVKALRDI EPGEEI SCY YGDGFFGENNEFCECYTCER

TRTRPLE - GFP Tag - V

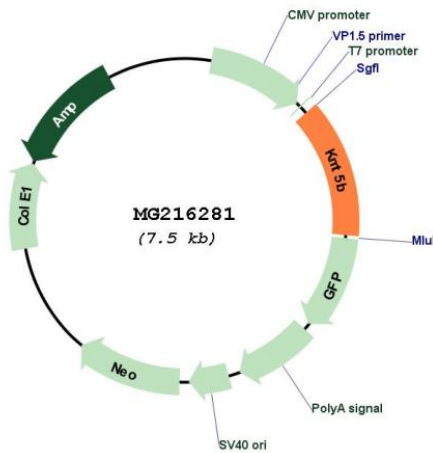
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001167888

**ORF Size:** 981 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001167888.1</a> , <a href="#">NP_001161360.1</a>
<b>RefSeq Size:</b>	3016 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	225888
<b>UniProt ID:</b>	<a href="#">Q3U8K7</a>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	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]