

Product datasheet for **MC229760**

Kmt2b (NM_001290573) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kmt2b (NM_001290573) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kmt2b
Synonyms: 2610014H22Rik; mKIAA0304; Mll2; Wbp7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229760 representing NM_001290573
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**

ATGGCGGGCGGGCGGGCGGGCGGGCAGTTGCCCGGGCCTGGCTCCGCACGGGGCCGTTCCCGGGCCGGC
 CGCGGGGTTCCGGCGGGGGCGGGGCCCGGGCGGGCCGAGGCAACGGAGCCGAAAGAGTGGGGTAGCCCT
 GCGGCGCGGTGGCGGGCGGGCGGGCCGGGAGGAGCCGAGCCCGGGGAGGACACGGCCCTGCTCCGTTTG
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 GCCCGGGCCGGGACGGGGCTGGGGCCGAACCGAGGCTGCATGCCGGAGGAAGAGAGCAGTGCAGGGGA
 ATCCGAGGAGGAGGAGTTTCAGGGTTTTTCATTAGATGAAGATGTGGCCCCAGTTCCCTGCGCTCTGCG
 CTTCCGGTCCCAGCGAGGTCGAGCCCTCGGGTCCGGGGCCGAAGCATAAGACGACCCCCCTTCTCCTC
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 CTTGGAGCAGCAGGCGACAGAGCCCAACCTCCTGAAGACCTGCCTT CAGAAATTGTGATTTCTGTTGA
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 GACCTACTGTTT GAGTCCAGTGGCATCACTATTCAGCAGGCGAGGCCTCAAGCTCTGAGGAAGAGCCTC
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 TTGTCAATCGCTCTGTGCTGACTGACAAGCGAGAGAAGTCTATGATGGGAAGGGTATTGGGCTACAT
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 TCATGTGAGCCCAACTGCTTCTCTCGTGTATCCATGTGGAAGGCCAGAAACACATTGTCATCTTTGCT
 TGCGCCGATCCTGCGAGGTGAGGAGCTCACCTATGACTACAAGTTTCTATCGAGGATGCCAGCAACAA
 GCTGCCCTGCAACTGTGGCGCAAGCGCTGCCGTGCTTTCTTAAC**TGA**

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001290573
Insert Size: 8169 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001290573.1, NP_001277502.1</u>
RefSeq Size:	8484 bp
RefSeq ORF:	8169 bp
Locus ID:	75410
Cytogenetics:	7 B1
Gene Summary:	<p>Histone methyltransferase. Methylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in beta-globin locus transcription regulation by being recruited by NFE2 (By similarity). Plays an important role in controlling bulk H3K4me during oocyte growth and preimplantation development. Required during the transcriptionally active period of oocyte growth for the establishment and/or maintenance of bulk H3K4 trimethylation (H3K4me3), global transcriptional silencing that precedes resumption of meiosis, oocyte survival and normal zygotic genome activation. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>