

Product datasheet for **MG225174**

Kmt2b (NM_029274) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kmt2b (NM_029274) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kmt2b
Synonyms:	2610014H22Rik; mKIAA0304; MII2; Wbp7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225174 representing NM_029274 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCGGGCGGGCGGGCGGGCAGTTGCCCGGGCCTGGCTCCGCACGGGGCCGCTTCCCGGGCCGGC
CGCGGGGTTCCGGCGGGGGCGGGGGCCGCGCGGCCGAGGCAACGGAGCCGAAAGAGTGCGGGTAGCCCT
GCGGCGCGGTGGCGGCGGGCGGGGGCCGGGAGGAGCCGAGCCCGGGGAGGACACGGCCCTGCTCCGTTT
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GCCGCGCGGGGACGGGCTGGGGCCGAACCGAGGCTGCATGCCGAGGAAGAGAGCAGTGACGGGA
ATCCGAGGAGGAGGATTCAGGTTTTTCAATTCAGATGAAGATGTGGCCCCAGTTCCCTGCGCTCTGCG
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GAGAGGGAAGCTGCTCGGTGAGGACCAGAGGGCACCCCTTCTCCCACTCCAAACCCTAGCACCACCACAG
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 CTGCCGCTGCTTTCTTAAAC

AGCGGACCGACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG225174 representing NM_029274
 Red=Cloning site Green=Tags(s)

MAAAAGGSCPGPGSARGRFPRPRGSGGGGGRGNGAERVVVALRRGGGAAGPGGAEPGEDTALLRL
 LGLRRGLRRLRRLWAGARVQRGRGRGRGWPNRGCMPPEEESDGESEEEEFQGFHSDDEDVAPSSLRSA
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 AREPSTPRRSRGRPPGRPAGPCRKKQAVVLAEEAVTIPKPEPPPPVVPVKNKAGSWKCKEGPGPGT
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 VHFPVTVYSGPALAPSSLAGAPRIQLDGVDDGTDSEAEAVQQPRGQGTTPSGPGVGRGGVLAGAGDRAQ
 PPEDLPSEIVDFVLKNLGGPGEAAGPREDLSAPPLANGSQPPQLSTSPADPRTFAWLPAGPVV
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 VVGVGVRPAPPPPPPLTLVSSGPPSPRQAIRVKRVSTFSGRSPPVPPNKPRLDEDEGESLEDAHH
 VPGISGSGFSRVRMKTPTVRGVLNPNNGEQPEEESGPRPQDRCPDLLPLAEAPSQALDGSDDL FESQWH
 HYSAGEASSSEEEPPSPEDKENQVPKRVGPHLRFEISSDDGFVSAEASLEVAWRTLIEKVQEARGHARL
 HLSFSGMSGARLLGIHDAVIFLAEQLPGAQRCHYKFRYHQQEGEQEPPPLNPHGAARAEVYLRKCTFD
 MFNFLASQHRVLP EGATCDEEDEVQLRSTRATSLELPMAMRFRHLKKTKEAVGVYRSAIHGRGLFCK
 RNIDAGEMVIEYSGIVIRSVLTDKREKFDGKIGCYMFRMDDFDVVDATMHGNAARFINHSCEPNCFSR
 VIHVEGQKHIVIFALRRILRGEELTYDYKFPIEDASNKLPNCNGAKRCRRFLN

SGPTRRRLRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

ACCN:	NM_029274
ORF Size:	8139 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_029274.2 , NP_083550.2
RefSeq Size:	8457 bp
RefSeq ORF:	8142 bp
Locus ID:	75410
UniProt ID:	O08550
Cytogenetics:	7 B1

Gene Summary:

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]