

## **Product datasheet for MG212028**

### 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

## Kdm5b (NM\_152895) Mouse Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Kdm5b (NM\_152895) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Kdm5b

**Synonyms:** 2010009J12Rik; 2210016I17Rik; AW556288; D1Ertd202; D1Ertd202e; Jari; Jarid1b; mKIAA4034;

Pl; PLU; PLU-1; Plu1; PUT1; Rb-B; Rb-Bp2; RBBP2H1A

Mammalian Cell

Selection:

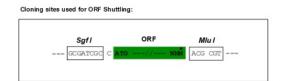
Neomycin

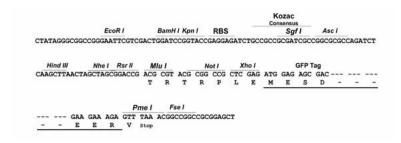
**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_152895

ORF Size: 4632 bp



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**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:** 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

**RefSeq:** <u>NM 152895.2</u>, <u>NP 690855.2</u>

 RefSeq Size:
 6300 bp

 RefSeq ORF:
 4635 bp

 Locus ID:
 75605

 UniProt ID:
 Q80Y84

Cytogenetics: 1 58.24 cM

**Gene Summary:** This gene encodes a lysine-specific histone demethylase that belongs to the jumonji/ARID

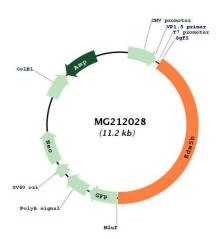
domain-containing family of histone demethylases. The encoded protein is capable of demethylating tri-, di- and monomethylated lysine 4 of histone H3. This protein plays a role in the transcriptional repression or certain tumor suppressor genes and is upregulated in certain cancer cells. This protein may also play a role in genome stability and DNA repair.

Homozygous mutant mice display decreased body weight, decreased female fertility, lower uterine weight, and a delay in mammary development. Knockout of this gene has also been

associated with embryonic lethality. [provided by RefSeq, Dec 2016]



# **Product images:**



Circular map for MG212028