

# **Product datasheet for MR201195**

## Rbm38 (BC006687) Mouse Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Rbm38 (BC006687) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Rbm38

Synonyms: Rnpc1; Seb4; Seb4l

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >MR201195 representing BC006687

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GGCACCACCTTCGTGCAGTACCAGGCACCTCAGCTACAGCCTGACAGGATGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201195 representing BC006687

Red=Cloning site Green=Tags(s)

MADRAAADRACKDPNPIIDGRKANVNLAYLGAKPRSLQTGFAVGVQQLHPTLIQRTYGLTPHYIYPPAIV QPSVVIPATPVPSLSSPYLEYTPASPAYAQYPPATYDQYPYAASPAAATSFVGYGYPAAVPQALSAAAPA

GTTFVQYQAPQLQPDRMQ

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



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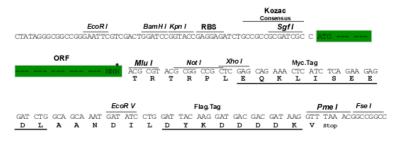
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



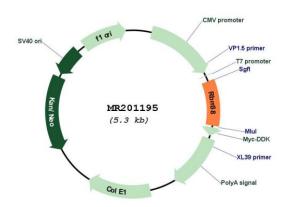
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

### Plasmid Map:



**ACCN:** BC006687 **ORF Size:** 474 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:** 1. Centrifuge at 5,000xg for 5min.

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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>BC006687</u>

**RefSeq Size:** 2308 bp

**RefSeq ORF:** 476 bp

**Locus ID:** 56190

Cytogenetics:

MW: 84.6 kDa

**Gene Summary:** RNA-binding protein that specifically bind the 3' UTR of CDKN1A transcripts, leading to

maintain the stability of CDKN1A transcripts, thereby acting as a mediator of the p53/TP53 family to regulate CDKN1A. CDKN1A is a cyclin-dependent kinase inhibitor transcriptionally regulated by the p53/TP53 family to induce cell cycle arrest. Has the ability to induce cell cycle arrest in G1 and maintain the stability of CDKN1A transcripts induced by p53/TP53. Also acts as a mRNA splicing factor. Specifically regulates the expression of FGFR2-IIIb, an epithelial cell-specific isoform of FGFR2 (By similarity). Plays a role in myogenic differentiation.

[UniProtKB/Swiss-Prot Function]

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