

## Product datasheet for **RC224422**

### **RBM38 (NM\_017495) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RBM38 (NM\_017495) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RBM38  
**Synonyms:** dj800J21.2; HSRNASEB; RNPC1; SEB4B; SEB4D  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC224422 representing NM\_017495  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCTGCAGCCCGCGCCGTGCGCCCCGAGCGGGCTTCCCGCGCCCTGGCCGCCCCCGCGCCA  
 TGCACGGCTCGCAGAAGGACACCACGTTACCAAGATCTTCGTGGCGGCCTGCCGTACCACACTACCGA  
 CGCCTCGCTCAGGAAGTACTTCGAGGGCTTCGGCGACATCGAGGAGGCCGTGGTCATCACCGACCGCCAG  
 ACGGGCAAGTCCCGCGGCTACGGCTTCGTGACCATGGCCGACCGGGCGGAGCTGAGAGGGCTTGCAAAG  
 ACCCGAACCCATCATCGACGGCCGCAAGGCCAACGTGAACCTGGCATATCTGGGCGCAAGCCCGGGAG  
 CCTCCAGACGGGCTTTGCCATTGGGGTGCAGCAGCTGCACCCACCTTGATCCAGCGGACTTACGGGCTG  
 ACCCCGCACTACATCTACCCACCAGCCATCGTGCAGCCAGCGTGGTGATCCCAGCCGCCCTGTCCCGT  
 CGCTGTCTCGCCCTACATTGAGTACACGCCGGCCAGCCCGGCCTACGCCAGTACCCACCGGCCACCTA  
 TGACCAGTACCCATACGCCGCTCGCCTGCCACGGCTGCCAGCTTCGTGGGCTACAGTACCCTGCCGCC  
 GTGCCCCAGGCCCTCTCAGCCGAGCACCCGCGGGCACCCTTTCGTGCAGTACCAGGCGCCGAGCTGC  
 AGCCTGACAGGATGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224422 representing NM\_017495  
 Red=Cloning site Green=Tags(s)

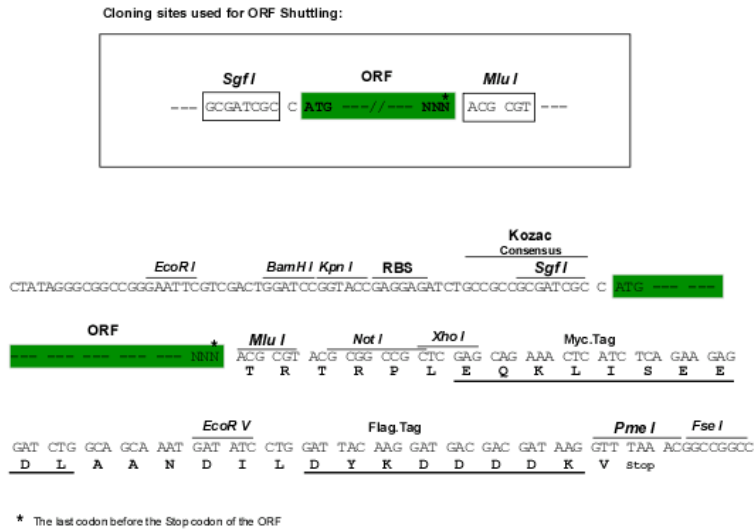
MLLQPAPCAPSAGFPRPLAAPGAMHGSQKDTTFTKIFVGGPLYHTTDASLRKYFEGFGDIEEAVVITDRQ  
 TGKSRGYGFVTMADRAAAERACKDPNPIIDGRKANVNLAYLGAKPRSLQTGFAIGVQQLHPTLIQRTYGL  
 TPHYIYPPAIVQPSVVIPAAPVPSLSSPYIEYTPASPAYAQQYPPATYDQYPYAASPATAASFVGSYPAA  
 VPQALSAAPAGTTFVQYQAPQLQPDQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3453\\_a03.zip](https://cdn.origene.com/chromatograms/ja3453_a03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017495

**ORF Size:** 717 bp

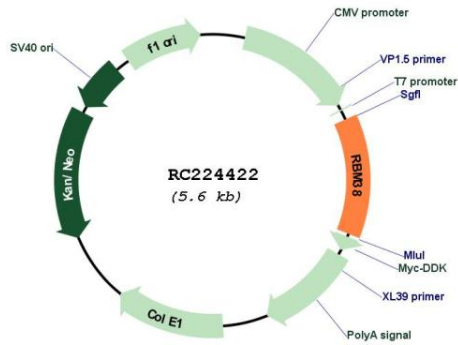
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u>NM_017495.6</u>
<b>RefSeq Size:</b>	2410 bp
<b>RefSeq ORF:</b>	720 bp
<b>Locus ID:</b>	55544
<b>UniProt ID:</b>	<u>Q9H0Z9</u>
<b>Cytogenetics:</b>	20q13.31
<b>Domains:</b>	RRM
<b>MW:</b>	25.5 kDa
<b>Gene Summary:</b>	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. Isoform 1, but not isoform 2, 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. Plays a role in myogenic differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC224422