

## Product datasheet for **RC202569**

### **RBM4B (NM\_031492) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | RBM4B (NM_031492) Human Tagged ORF Clone                          |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | RBM4B                                                             |
| Synonyms:                 | RBM4L; RBM30; ZCCHC15; ZCCHC21B; ZCRB3B                           |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >RC202569 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGGTGAAGCTGTTTCATCGGAACCTTCCCGGGAGGCTACAGAGCAGGAGATTCGCTCACTCTTCGAGC  
 AGTATGGGAAGGTGCTGGAATGTGACATCATTAAAGATTACGGCTTTGTGCACATAGAAGACAAGACGGC  
 AGCTGAGGATGCCATACGCAACCTGCACCATTACAAGCTTCATGGGGTGAACATCAACGTGGAAGCCAGC  
 AAGAATAAGAGCAAAGCTTCAACCAAGTTACACGTGGTAAACATCAGCCCCACTTGTACCAACCAAGAGC  
 TTCGAGCCAAGTTTGGAGAGTATGGTCCGGTCATCGAATGTGACATCGTGAAAGATTATGCCTTCGTACA  
 CATGGAGCGGGCAGAGGATGCAGTGGAGGCCATCAGGGGCCTTGACAACACAGAGTTTCAAGGCAAAAGA  
 ATGCATGTGCAGTTGTCCACAAGCCGGCTTCGGACTGCCCTGGTATGGGAGACCAGAGTGGCTGTATC  
 GGTGTGGGAAAGAAGGGCACTGGTCCAAAGAGTGCCAGTAGATCGTACGGGTCGTGTGGCAGACTTTAC  
 TGAGCAGTATAATGAACAATATGGAGCAGTTCGAACACCTTACACCATGGGCTACGGGGAATCCATGTAT  
 TACAACGATGCATATGGAGCACTCGACTACTATAAGCGATACCGGGTCCGCTCTTATGAGGCAGTAGCAG  
 CGGCGGCAGCGGCTTCTGCATACAACACGAGAGCAGACCATGTCCCATCTGCCTCAAGTCCAAAGCAC  
 AACTGTGACCAGCCACCTCAACTCTACTTCTGTTGATCCCTATGACAGACACCTATTGCCAACTCTGGC  
 GCTGCTGCCACTTCAGCTGCTATGGCTGCTGTCAGCCACCCTTCTCCTACTATGGAAGGGACAGGA  
 GCCACTGCGTCGTGCTGACGCCATGCTCCCCACAGTTGGAGAGGGCTACGGTTATGGGCCAGAGAGTGA  
 ATTATCTCAGGCTTCCGAGCTACACGGAATTCTCTGTATGACATGGCCCGGTATGAACGGGAGCAGTAT  
 GTGGACCGAGCCCGGTACTCAGCCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC202569 protein sequence  
 Red=Cloning site Green=Tags(s)

MVKLFIGNLPREATEQEIRSLFEQYGKVLCECDIIKNYGFVHIEDKTAEDAIRNLHHYKLHGVNINVEAS  
 KNKSKASTKLHVGNISPTCTNQELRAKFEEYGPVIECDIVKDYAFVHMERAEDAVEAIRGLDNTEFQGKR  
 MHVQLSTSLRTAPMGDQSGCYRCGKEGHSKECPVDRTGRVADFTQYNEQYGAVRTPYTMGYGESMY  
 YNDAYGALDYYKRYRVRSYEAVAAAAASAYNYAEQTMSHLPQVQSTTVTSHLNSTSVDPYDRHLLPNSG  
 AAATSAAMAAAAATTSSYYGRDRSPLRRAAAMLPTVGEYGYGPESELSQASAATRNSLYDMARYEREQY  
 VDRARYSAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6728\\_h05.zip](https://cdn.origene.com/chromatograms/mk6728_h05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_031492

**ORF Size:** 1077 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.
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:** [NM\\_031492.4](#)

**RefSeq Size:** 1844 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 83759

**UniProt ID:** [Q9BQ04](#)

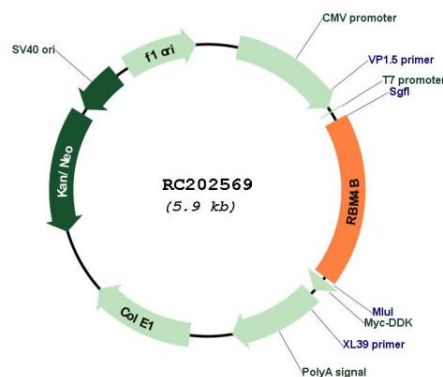
**Cytogenetics:** 11q13.2

**Domains:** RRM, zf-CCHC

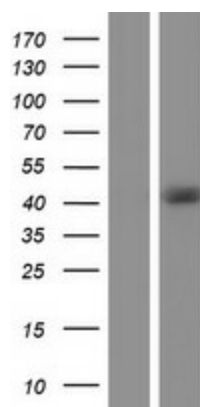
**MW:** 40.1 kDa

**Gene Summary:** Required for the translational activation of PER1 mRNA in response to circadian clock. Binds directly to the 3' UTR of the PER1 mRNA (By similarity).[UniProtKB/Swiss-Prot Function]

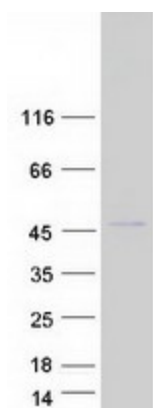
## Product images:



Circular map for RC202569



Western blot validation of overexpression lysate (Cat# [LY410488]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202569 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RBM4B protein (Cat# [TP302569]). The protein was produced from HEK293T cells transfected with RBM4B cDNA clone (Cat# RC202569) using MegaTran 2.0 (Cat# [TT210002]).