

Product datasheet for **MR202894**

Rbm38 (NM_019547) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbm38 (NM_019547) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbm38
Synonyms:	Rnpc1; Seb4; Seb4l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202894 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGCAGCCCGCGTGCTCCCCGAGTGTGTTCCGCGGCCGTCCGCCGCCCCAGCGCCATGCACG
GCTCACAGAAGGACACCACGTTACCAAGATCTTCGTGGCGGCCCTGCCCTACCACACCACCGACGCATC
GCTCAGAAAGTACTTCGAGGGCTTCGGAGACATCGAGGAGCCGTGGTCATCACCGACCGCCAGACCGGC
AAGTCCCAGCGCTACGGCTTCGTGACCATGGCAGATCGGGCAGCGGCTGATAGGGCTTGCAAAGACCCTA
ACCCTATCATCGATGGTCGCAAGCCAATGTGAACCTGGCCTACCTGGGTGCCAAGCCTAGGAGCTTACA
GACGGGCTTTGCTGTTGGTGTGCAGCAACTACACCCACCTTGATCCAGCGCACCTACGGGCTGACTCCT
CACTACATCTACCCACCAGCCATTGTGCAGCCAGCGTGGTATCCCTGCCACCCCTGTCCCCTCACTGT
CCTCGCCCTACCTTGAGTATACACCAGCCAGCCAGCCTACGCCAGTACCCGCCAGCCACTTACGACCA
GTACCCATATGCTGCCTCACCTGCTGCAGCCACCAGCTTCGTGGGCTACGGCTACCCTGCTGCCGTGCC
CAAGCCTTGCTGCTGCTGCACCTGCAGGCACCACCTTCGTGCAGTACCAGGCACCTCAGCTACAGCCTG
ACAGGATGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202894 protein sequence
Red=Cloning site Green=Tags(s)

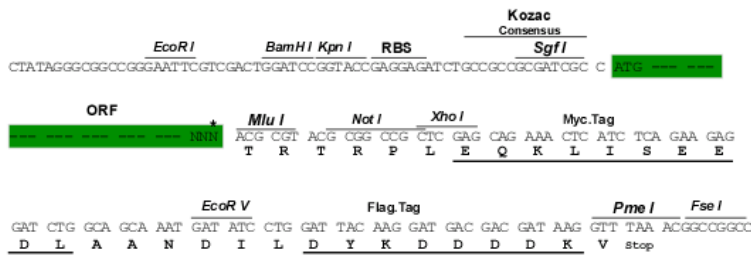
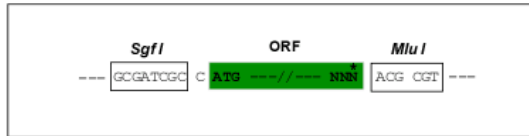
MLLQPACSPSVFPRPSAAPSAMHGSQKDTTFTKIFVGGPLYHTTDASLRKYFEGFGDIEEAVVITDRQTG
 KSRGYGFVTMADRAAADRACKDPNPIIDGRKANVNLAYLGAKPRSLQTGFVAVGVQLHPTLIQRTYGLTP
 HYIYPPAIVQPSVVIPATPVPSLSSPYLEYTPASPAYAQYPPATYDQYPYAASPAATSFVGYGYPAAVP
 QALSAAAPAGTTFVQYQAPQLQPDRMQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019547

ORF Size: 714 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.

RefSeq: [NM_019547.2](#), [NP_062420.2](#)

RefSeq Size: 1787 bp

RefSeq ORF: 714 bp

Locus ID: 56190

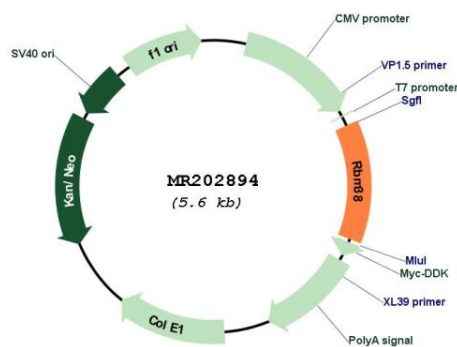
UniProt ID: [Q62176](#)

Cytogenetics: 2 H3

MW: 25.4 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]

Product images:



Circular map for MR202894