

Product datasheet for **SC110518**

RBM38 (NM_183425) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBM38 (NM_183425) Human Untagged Clone
Tag:	Tag Free
Symbol:	RBM38
Synonyms:	dj800J21.2; HSRNASEB; RNPC1; SEB4B; SEB4D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110518 sequence for NM_183425 edited (data generated by NextGen Sequencing) ATGCTGCTGCAGCCCGCGCCGTGCGCCCCGAGCGCGGGCTTCCCGCGCCCTGGCCGCC CCCGGCGCCATGCACGGCTCGCAGAAGGACACCAGTTACCAAGATCTTCGTGGCGGGC CTGCCGTACCACACTACCGACGCTCGCTCAGGAAGTACTTCGAGGGCTTCGGCGACATC GAGGAGGCCGTGGTCATACCGACCGCCAGACGGGCAAGTCCCGCGGCTACGGCTTCGTG ACCATGGCCGACCGGGCGGCGAGCTGAGAGGGCTTGCAAAGACCCGAACCCATCATCGAC GGCCGCAAGGCCAACGTGAACCTGGCATATCTGGGCGCCAAGCCGCGGAGCCTCCAGACG GGCTGA Clone variation with respect to NM_183425.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_183425 unedited AGAATTTTGGTATACGACTCACTATAGGGGCGGCCGCGATTTCGGCACCAGGGNAGCGCAG CGCGGGCGCAGCTCGGCGCGCACGGCGGGAGCGGCGCGGAGTGGTCGGGCCTGGCGGCTG GACGGGCGCCCTCGCTGCCCGCGCGCTCCCCGCGCCCCCATGAGCGCAGCCCCGCG CGGCCCCGGTCCGTAGGCGGGGGCGCCCCCATGCTGCTGCAGCCCGCCGTGCGCC CCGAGCGCGGGCTTCCCGGGCCCTGGCCGCCCGGGCCATGCACGGCTCGCAGAAG GACACCAGTTCACCAAGATCTTCGTGGGCGGCCTGCCGTACCACACTACCGACGCTCG CTCAGGAAGTACTTCGAGGGCTTCGGCGACATCGAGGAGCCGTGGTCATCACCGACCGC CAGACGGGCAAGTCCCGGGCTACGGCTTCGTGACCATGGCCGACCGGGCGGCGAGCTGAG AGGGCTTGCAAAGACCCGAACCCATCATCGACGGCCGCAAGGCCAACGTGAACCTGGCA TATCTGGGCGCAAGCCGCGGAGCTCCAGACGGGCTGACCCGCACTACATCTACCCAC CAGCCATCGTGCAGCCAGCGTGGTGATCCAGCCGCCCTGTCCCGTCTGCTGCTCCTCGC CCTACATTGAGTACACCGCGCCAGCCCGGCTACGCCAGTACCCACCGGCCACCTATG ACCAGTACCCATACGCCCTCGCCTGCCACGGCTGCCAGCTTCGTGGGCTACAGCTACC CTGCCCGCTGCCAGGCCCTCAGCCGCGAGCACCCGCGGGCACCANCTTCGTGCAGT ACCAGGCCCGCAGCTGCAGCCTGACAGGATGCAGTGAGGGGGCGTTCTGCCCGGAGGA CTGTGGCATTGTACCTTACAGCAAACAGAGCTGCAGCCATGATGGGCTGGCGACAGCC CGCTGAGCNNCATGAGTGCACCACACCCGTGCTCC
Restriction Sites:	NotI-NotI
ACCN:	NM_183425
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_183425.1 , NP_906270.1
RefSeq Size:	2346 bp
RefSeq ORF:	366 bp
Locus ID:	55544
UniProt ID:	Q9H0Z9
Cytogenetics:	20q13.31

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. 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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, and also lacks another exon that results in a frameshift in the 3' coding region, compared to variant 3. The encoded isoform (b) has a distinct C-terminus and is shorter than isoform c.