

Product datasheet for **RN209936**

Rbmx (NM_001025663) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rbmx (NM_001025663) Rat Untagged Clone
Tag: Tag Free
Symbol: Rbmx
Synonyms: hnRNP-G; hnRNP G
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209936 representing NM_001025663
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTTGAAGCAGATCGCCAGGAAAGCTCTTTATTGGTGGGCTTAATACAGAAACAAATGAGAAAGCCC
 TGGAGGCAGTGTTGGCAAATATGGACGAATAGTGAAGTGCTTTTATGATGAAGGACCGAGAAACCAATAA
 GTCAAGAGGATTTGCTTTTGTACATTTGAAAGCCAGCAGATGCAAAGGATGCTGCCAGAGACATGAAT
 GGAAAGTCCTTAGATGGAAAAGCCATCAAGGTGGAGCAAGCCACCAACCATCATTTGAAAGTGGCAGAC
 GTGGACTACCTCCACCTCCAAGAAGCAGAGGCCCTCCAGAGGTCTTCGAGGAGGAAGAGGGGAAAGTGG
 AGGAACCAGAGGACCCCATCACGGGGAGGACACATGGATGATGGTGGCTACTCCATGAATTTACTTTG
 AGTTCTCCAGAGGACCTCTCCAGTAAAAAGAGGACCACCACCAAGAAGTGGAGGTCTCCTCCTAAAA
 GATCAGCACCTTCAGGACCAGTTCGCAGCAGCAGTGGAATGGGAGGAAGAGCTCCTGTGTACGTGGAAG
 AGATGGTTATGGAGGCCACCACGAAGAGAGCCCCTGCCTTCTCGTAGAGATGTTATTTGTCCCGAGA
 GATGATGGATATCCACTAAAGACAGCTATTCAAGCAGAGACTATCCAAGTTCAGAGATACACGAGATT
 ATGCACCACCAAGAGATTATACTTACCGTATTATGGTCATTCCAGTTCACGAGATGACTATCCATC
 AAGAGGCTATAGTGATAGAGATGGATATGGTCCGGAGCGTGACTATTCGGATCATCCAAGTGGAGGTTCC
 TACAGAGATTCGTATGAGAGTTATGGTAACTCACGTAGTCTCCACCTACACGAGGGCCCCGCCATCTT
 ATGGTGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGAAGTCGAGACAGTTA
 CACAAGCAGCCGAAGTATCTCTACTCAAGTGGTCTGATCGCGTGGCAGACAAGAACGAGGGCTTCCC
 CCTTCTATGAAAAGGGGTACCCTCCTCCACGTGATTCTACAGCAGTTCAAGCCGCGGAGCACCAAGAG
 GTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGCAGAAGCAGATACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001025663
Insert Size:	1173 bp
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:	<u>NM_001025663.1, NP_001020834.1</u>
RefSeq Size:	2042 bp
RefSeq ORF:	1173 bp
Locus ID:	302855
UniProt ID:	<u>Q4V898</u>
Cytogenetics:	Xq37
Gene Summary:	RNA-binding protein that plays several role in the regulation of pre- and post-transcriptional processes. Implicated in tissue-specific regulation of gene transcription and alternative splicing of several pre-mRNAs. Binds to and stimulates transcription from the tumor suppressor TXNIP gene promoter; may thus be involved in tumor suppression. When associated with SAFB, binds to and stimulates transcription from the SREBF1 promoter. Associates with nascent mRNAs transcribed by RNA polymerase II. Component of the supraspliceosome complex that regulates pre-mRNA alternative splice site selection. Can either activate or suppress exon inclusion; acts additively with TRA2B to promote exon 7 inclusion of the survival motor neuron SMN. Represses the splicing of MAPT/Tau exon 10. Binds preferentially to single-stranded 5'-CC[A/C]-rich RNA sequence motifs localized in a single-stranded conformation; probably binds RNA as a homodimer. Binds non-specifically to pre-mRNAs. Plays also a role in the cytoplasmic TNFR1 trafficking pathways; promotes both the IL-1-beta-mediated inducible proteolytic cleavage of TNFR1 ectodomains and the release of TNFR1 exosome-like vesicles to the extracellular compartment.[UniProtKB/Swiss-Prot Function]