

## Product datasheet for **RR209936**

### Rbmx (NM\_001025663) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rbmx (NM\_001025663) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rbmx  
**Synonyms:** hnRNP-G; hnRNP G  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209936 representing NM\_001025663  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGTTGAAGCAGATCGCCAGGAAAGCTTTTATTGGTGGGCTTAATACAGAAACAAATGAGAAAGCCC  
TGGAGGCAGTGTGGCAAATATGGACGAATAGTGAAGTGCTTTTATGATGAAGGACCGAGAAACCAATA  
GTCAAGAGGATTTGCTTTTGTACATTTGAAAGCCAGCAGATGCAAAGGATGCTGCCAGAGACATGAAT  
GGAAAGTCCTTAGATGGAAAAGCCATCAAGGTGGAGCAAGCCACCAACCATCATTTGAAAGTGGCAGAC  
GTGGACTACCTCCACCTCCAAGAAGCAGAGGCCCTCCAGAGGTCTTCGAGGAGGAAGAGGGGAAAGTGG  
AGGAACCGAGAGGACCCCATCACGGGGAGGACACATGGATGATGGTGGCTACTCCATGAATTTACTTTG  
AGTTCTTCCAGAGGACCTCTTCCAGTAAAAAGAGGACCACCACCAAGAAGTGGAGGTCTCCTCCTAAAA  
GATCAGCACCTTCCAGGACAGTTCGCAGCAGCAGTGAATGGGAGGAAGAGCTCCTGTGTACGTGGAAG  
AGATGGTTATGGAGGCCACCACGAAGAGAGCCCCTGCCTTCTCGTAGAGATGTTTATTTGTCCCGAGA  
GATGATGGATATCCACTAAAGACAGCTATTCAAGCAGAGACTATCCAAGTTCGAGATACACGAGATT  
ATGCACCACCAAGAGATTATACTTACCGTGATTATGGTCATTCCAGTTCACGAGATGACTATCCATC  
AAGAGGCTATAGTGATAGAGATGGATATGGTCGGGAGCGTGACTATTCGGATCATCCAAGTGGAGGTTCC  
TACAGAGATTCGTATGAGAGTTATGGTAACTCACGTAGTCTCCACCTACACGAGGGCCCCGCCATCTT  
ATGGTGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGAAGTCGAGACAGTTA  
CACAAGCAGCCGAAGTATCTCTACTCAAGTGGTCGTGATCGCGTGGGCAGACAAGAACGAGGGCTTCCC  
CCTTCTATGAAAAGGGGGTACCCTCCTCCACGTGATTCTACAGCAGTTCAAGCCGCGGAGCACCAAGAG  
GTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGCGAGAAGCAGATAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209936 representing NM\_001025663  
Red=Cloning site Green=Tags(s)

MVEADRPGLF IGGLNTE TNEKALEAVFGKYGRIVEVLLMKDRETNKSRGF AVVTFESPADAKDAARDMN  
 GKSLD GKA I KVEQATKPSFESGRRGLPPPPRSRGPPRGLRGGGGGGTRGPPSRGGHMDDGGYSMNFTL  
 SSSRGLPLPVKRGPPPSRGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDGYGGPPRREPLPSRRDVYLSR  
 DDGYSTKDSYSSRDYPPSRDTRDYAPPRDYTYRDIYGHSSSRDDYPSRGYSDRDYGRERDYSHPSSGGS  
 YRDSYESYGNRSAPPTRGPPPSYGGSSRYDDYSSSRDGYGGSRDYSYSSRDL YSSGRDRVGRQERGLP  
 PSMERYPPPRDYSYSSSRGAPRGGGRGSRSDRGGRSRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

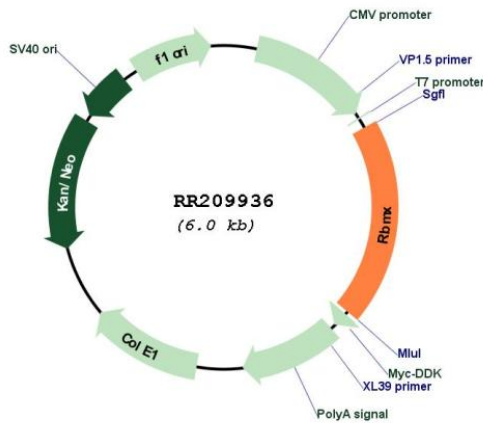
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001025663

<b>ORF Size:</b>	1170 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001025663.1</a> , <a href="#">NP_001020834.1</a>
<b>RefSeq Size:</b>	2042 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	302855
<b>UniProt ID:</b>	<a href="#">Q4V898</a>
<b>Cytogenetics:</b>	Xq37
<b>MW:</b>	42.3 kDa

**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]