

Product datasheet for MR206105

Rbmx (NM_001166623) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbmx (NM_001166623) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbmx
Synonyms:	hnRNP G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206105 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGAAGCAGATCGCCAGGAAAGCTCTTTATTGGTGGGCTTAATACAGAGACGAATGAGAAAGCCC
TTGAGGCAGTGTTGGCAAATATGGACGAATAGTGAAGTTCTTTTATGGAAGGACCGAGAAACGAATAA
GTCAAGAGGATTCGTTTTGTCACCTTTTAAAGCCAGCAGATGCAAAGGATGCTGCCAGAGACATGAAT
GGAAAGTCCTTAGATGGAAAGCCATCAAGGTGGAGCAAGCCACCAAACCATCATTTGAAAGTGGTAGAC
GTGGACTACCCACCTCCAAGAAGCAGAGGCCCTCCAGAGGCTTCGAGGAGGAAGAGGAGGAAGTGG
AGGAACCAGAGGACCCCTCCCGGGGAGGACACATGGATGATGGTGGCTACTCCATGAATTTACCATG
AGTTCTTCCAGAGGACCTCTGCCAGTAAAACGAGGACCACCACGAAGTGGAGGTCTCTCTCTAAAA
GATCAGCACCTTCTGGACCAGTTCGTAGCAGCAGTGGACTGGGAGGAAGAGCCCTGTGTCCCGTGGAAAG
AGATGGTTACGGAGGCCCGCCACGAAGGGAGCCCTGCCTTCTCGAAGAGATGTTTATTTGTCCCGGAGA
GATGATGGATATCCACTAAAGACAGCTATTCAAGCAGAGAATATCCAAGTTCGAGATACACGAGATT
ATGCACCACCACAAGAGATTATACTTACCGTGATTATGGTCATTCCAGTTCACGAGATGACTATCCATC
AAGAGGCTATAGTGATAGAGATGGCTATGGTCGGGATCGGGACTATTCAGATCATCCAAGTGGAGGTTCC
TACAGAGATTCGTATGAGAGTTATGGTAACTCAGTAGTCTCCACCTACACGAGGGCCCCGCCATCTT
ATGGTGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGAAGTCGAGACAGTTA
CTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCTGATCGCGTGGGCAGACAAGAAAGAGGGCTTCCC
CCTTCTATGAAAGGGGGTACCCTCCTCCACGTGATTCTACAGCAGTTCAAGCCCGGAGCACCAAGAG
GTGGTGGCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206105 protein sequence
 Red=Cloning site Green=Tags(s)

MVEADRPGLF IGGLNTEETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGF AVVTFESPADAKDAARDMN
 GKSLDGKAIKVEQATKPSFESGRRGLPPPPRSRGPPRGLRGGGGGGTRGPPSRGGHMDDGGYSMNFTM
 SSSRGPLPVKRGPPPSRGPPPKRSAPSGPVRSSSGLGGRAPVSRGRDGYGGPPRREPLPSRRDVYLSPR
 DDGYSTKDSYSSREYPPSRDTRDYAPPRDYTYRDYGHSSSRDDYPSRGYSDDRDYGRDRDYSHPSSGGS
 YRDSYESYGNRSAPPTRGPPSYGSSRYDDYSSSRDGYGSRDSYSSSRSDLYSSGRDRVGRQERGLP
 PSMERYPPPRDYSYSSSRGAPRGGGRGSRSDRGGGRSRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001166623

ORF Size: 1176 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_001166623.1](#), [NP_001160095.1](#)

RefSeq Size: 2440 bp

RefSeq ORF: 1176 bp

Locus ID: 19655

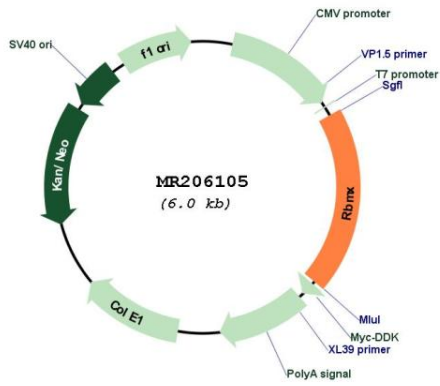
UniProt ID: [Q9WV02](#)

Cytogenetics: X A6

MW: 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 SMN2. 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]

Product images:



Circular map for MR206105