

Product datasheet for **RC200777**

hnRNP G (RBMX) (NM_002139) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP G (RBMX) (NM_002139) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	hnRNP G
Synonyms:	hnRNP-G; HNRNPG; HNRPG; MRXS11; RBMXP1; RBMXRT; RNMX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200777 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAACAAATGAGAAAGCTC
TTGAAGCAGTATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATGAAAGACCGTGAACCAACAA
ATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAAT
GGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAACCATCATTTGAAAGTGGTAGAC
GTGGACCGCTCCACCTCAAGAAGTAGAGGCCCTCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGG
AGGAACCAGGGGACCTCCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTAACATG
AGTTCTTCCAGGGGACCACTCCCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGTCTCCTCCTAAGA
GATCTGCACCTTCAGGACCAGTTCGAGTAGCAGTGGAAATGGGAGGAAGAGCTCCTGTATCACGTGGAAG
AGATAGTTATGGAGGTCCACCTCGAAGGGAACCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCAAGA
GATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCAAGTTCCTGATAGACTAGAGATT
ATGCACCACCACCAGAGATTACTTACCGTGATTATGGTCATTCCAGTTCACGTGATGACTATCCATC
AAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTATTCAGATCATCAAGTGGAGGTTCC
TACAGAGATTCATATGAGAGTTATGGTAACTCAGTAGTGCTCCACCTACACGAGGGCCCCGCCATCTT
ATGGTGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGAAGTCGAGACAGTTA
CTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCTGATCGGGTTGGCAGACAAGAAAGAGGGCTTCCC
CCTTCTATGAAAAGGGGTACCCTCCTCCAGTGATTCTACAGCAGTTCAAGCCGCGGAGCACCAAGAG
GTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200777 protein sequence
Red=Cloning site Green=Tags(s)

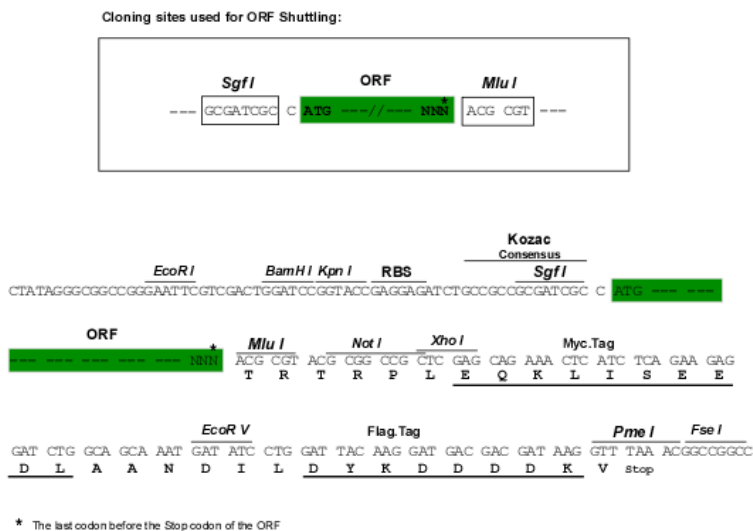
MVEADRPGLF IGGLNTEETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGF AVVTFESPADAKDAARDMN
 GKSLDGKAIKVEQATKPSFESGRRGPPPPRSRGPPRGLRGGGGGGTRGPPSRGGHMDGGYSMNFMN
 SSSRGPLPVKRGPPPPRSRGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPR
 DDGYSTKDSYSSRDYPSSRDTRDYAPPPRDYTYRDIYGHSSRDYPSRGSYSDRDYGRDRDYSDHPSGGS
 YRDSYESYGNRSAPPTRGPPPSYGGSSRYDDYSSSRDYGGSRSRDSYSSSRDL YSSGRDRVGRQERGLP
 PSMERYPPPRDSYSSSRGAPRGGGRGSRSDRGGGRSRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6669_g04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002139

ORF Size: 1173 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_002139.4](#)

RefSeq Size: 2097 bp

RefSeq ORF: 1176 bp

Locus ID: 27316

UniProt ID: [P38159](#)

Cytogenetics: Xq26.3

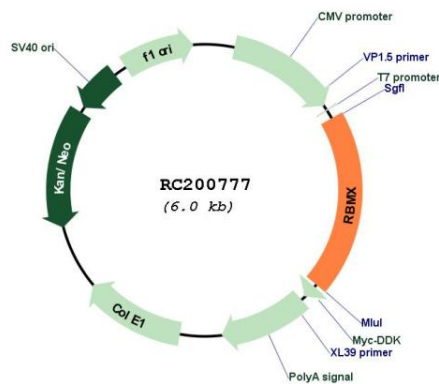
Domains: RRM, RRM_1

Protein Pathways: Spliceosome

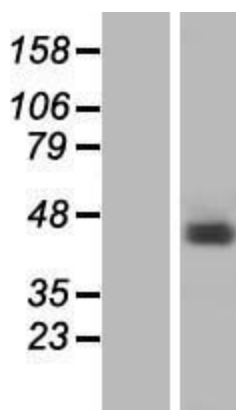
MW: 42.3 kDa

Gene Summary: This gene belongs to the RBMY gene family which includes candidate Y chromosome spermatogenesis genes. This gene, an active X chromosome homolog of the Y chromosome RBMY gene, is widely expressed whereas the RBMY gene evolved a male-specific function in spermatogenesis. Pseudogenes of this gene, found on chromosomes 1, 4, 9, 11, and 6, were likely derived by retrotransposition from the original gene. Alternatively spliced transcript variants encoding different isoforms have been identified. A snoRNA gene (SNORD61) is found in one of its introns. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC200777



Western blot validation of overexpression lysate (Cat# [LY419511]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200777 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).