

## Product datasheet for RC228128

### hnRNP G (RBMX) (NM\_001164803) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** hnRNP G (RBMX) (NM\_001164803) 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:** >RC228128 representing NM\_001164803  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAACAAATGAGAAAGCTC  
 TTGAAGCAGTATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATGAAAGACCGTGAACCAACAA  
 ATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAAT  
 GAAAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAACCGCTGCCCTCTCG  
 TAGAGATGTTTATTTGTCCCAAGAGATGATGGGTATTCTACTAAGACAGCTATTCAAGCAGAGATTAC  
 CCAAGTTCCTGATAGACTAGAGATTATGCACCACCACCAGAGATTATACTTACCGTGATTATGGTCATT  
 CCAAGTTCAGTACTGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTA  
 TTCAGATCATCAAGTGGAGGTTCTACAGAGATTCATATGAGAGTTATGGTTGGTGATTTTGTCTATTA  
 TGGTCGTGGAGTGCTGATTGATTCACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC228128 representing NM\_001164803  
 Red=Cloning site Green=Tags(s)

MVEADRPGLF IGGLNTEETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFVFTFESPADAKDAARDMN  
 GKLLYHVEEIVMEVHLEGNRCPLVEMFICPQEMMGILLKTAIQAEITQVLVILEIMHHHEIILTVIMVI  
 PVHVMTIHQEDIAIEMDMVVIVTIQIIQVEVPTEIHMVMVGFVHYGRGVLIDSQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164803

**ORF Size:** 588 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\\_001164803.2](#)

**RefSeq Size:** 2071 bp

**RefSeq ORF:** 591 bp

**Locus ID:** 27316

**UniProt ID:** [P38159](#)

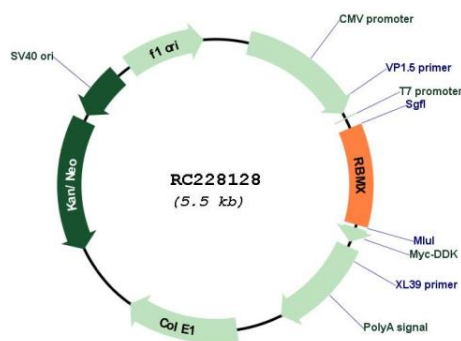
**Cytogenetics:** Xq26.3

**Protein Pathways:** Spliceosome

**MW:** 22.2 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 RC228128