

Product datasheet for **RG228128**

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: TurboGFP
Symbol: RBMX
Synonyms: hnRNP-G; HNRNPG; HNRPG; MRXS11; RBMXP1; RBMXRT; RNMX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG228128 representing NM_001164803
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAACAAATGAGAAAGCTC
TTGAAGCAGTATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATGAAAGACCGTGAACCAACAA
ATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAAT
GAAAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGTCCACCTCGAAGGGAACCGCTGCCCTCTCG
TAGAGATGTTTATTTGTCCCAAGAGATGATGGGTATTCTACTAAGACAGCTATTCAAGCAGAGATTAC
CCAAGTTCCTGATAGACTAGAGATTATGCACCACCACAGAGATTATACTTACCGTGATTATGGTCATT
CCAAGTTCAGTACTGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTA
TTCAGATCATCCAAGTGGAGGTTCTACAGAGATTCATATGAGAGTTATGGTTGGTGATTTTGTCTATTA
TGGTCGTGGAGTGCTGATTGATTCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228128 representing NM_001164803
Red=Cloning site Green=Tags(s)

MVEADRPGLFVIGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFVFTFESPADAKDAARDMN
GKLLYHVEEIVMEVHLEGNRCPLVEMFICPEMMGILLKTAIQAEITQVLVILEIMHHHHEIILTVIMVI
PVHVMTIHQEDIAIEMDMVVIVTIQIIQVEVPTIEIHMVRVMGDFAHYGRGVLIDSQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

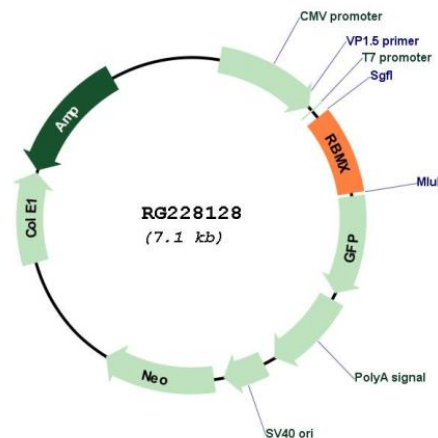


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Cloning Scheme:



Plasmid Map:



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

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]