

## Product datasheet for **RG223423**

### **RBM1A1 (NM\_005058) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | RBM1A1 (NM_005058) Human Tagged ORF Clone     |
| Tag:                      | TurboGFP                                      |
| Symbol:                   | RBM1A1                                        |
| Synonyms:                 | RBM; RBM1; RBM2; RBM1A; RBM1A1C; YRRM1; YRRM2 |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC-GFP (PS100010)                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |



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**ORF Nucleotide Sequence:**

>RG223423 representing NM\_005058  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGTAGAAGCAGATCATCCTGGCAAGCTTTTCATTGGTGGCCTCAATAGAGAAACCAATGAGAAGATGC  
 TTAAGCAGTATTTGGGAAACATGGTCCCATATCAGAAGTTCTTTTGATAAAGGATCGAACCAGCAAATC  
 CAGAGGCTTTGCATTTATTACTTTTGAGAACCTGCAGATGCTAAGAATGCTGCCAAAGATATGAATGGA  
 AAGTCTTTGCATGAAAAAGCAATAAAAGTAGAACCAAGCAAGAAACCATCTTTCAAAGTGGTGGTAGGC  
 GGAGACCACAGCTTCTTCGAGAAACAGAAGCCCTTCAGGAAGTCTGAGATCTGCAAGAGGAAGCCGTGG  
 AGGAACAAGAGGGTGGCTTCCCTCACATGAAGGGCACCTGGATGATGGTGGATACACTCCTGATCTCAAG  
 ATGAGTTATTCTAGGGGACTCATTCCAGTTAAAAGAGGTCCATCTCAAGAAGTGGAGGTCTCTCCGA  
 AAAATCTGCTCCTTCTGCTGTGCAAGAAGCAATAGTTGGATGGGAAGCCAAGGTCCCATGTCAAAAAG  
 AAGAGAGAATTATGGAGTTCCTCCAGCAGAGCGACAATATCTTCTGGAGAAATGATCGCATGTCAACA  
 AGACATGATGGTTATGCAACTAACGATGGAATCATCCAAGTTGCCAAGAAACGAGGGATTATGCTCCAC  
 CATCTAGAGGCTATGCATACCGTGATAATGGTCATTCTAATCGGGATGAACATTCCTCTAGAGGATATAG  
 AAATCATCGAAGTTCGAGAACTAGGGATTATGCTCCACCATCTAGAGGCCATGCATACCGTGATTAT  
 GGTCAATCTCGTCGGGATGAAAGTTATTCTAGAGGATACAGAAATCGTCGAAGTTCGAGAACTAGGG  
 AGTATGCTCCACCATCTAGAGGCCATGGATACCGTGATTATGGTCATTCTCGTCGACATGAAAGTTATTC  
 TAGAGGATATAGAAATCATCCAAGTTCGAGAAACAGGGATTATGCTCCACCACATAGAGACTATGCA  
 TACCGTGATTATGGTCATTCTAGTTGGGATGAACATTCCTCTAGAGGATATAGTTATCATGATGGCTACG  
 GTGAGGCCCTTGGTAGAGATCATTCTGAACATCTAAGTGAAGTCTTATAGAGATGCACCTCAGAGATA  
 CGGGACCTCTCATGGTGCACCACCTGCAAGAGGGCCTCGGATGTCTTATGGTGAAGCACCTGCCACGCA  
 TATAGTAATACACGAGATAGATATGGCAGAAGTTGGGAGAGTTACTCGAGCTGTGGTGATTTTCATTATT  
 GTGATCGTGAGCATGTTTGCAGAAAAGACCAAAGGAATCCGCCTTCTCTGGGTAGGGTGCTCCCTGATCC  
 TCGTGAAGCATGTGGTAGCTCAAGTTATGTGGCATCTATAGTAGATGGTGGGAGAGTCGATCTGAAAAA  
 GGAGACTCGAGCAGATAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG223423 representing NM\_005058  
 Red=Cloning site Green=Tags(s)

MVEADHPGKLFIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFAFITFENPADAKNAAKDMNG  
 KSLHGKAIKVEQAKKPSFQSGGRRRPPASSRNRSPPSGSLRSARGSRGGTRGWLPSEHGLDDGGYTPDLK  
 MSYSRGLIPVKRGPSSRSGGPPPKKSAPSAVARNSWMGSGPMSQRRENYGVPPRRATISSWRNDRMST  
 RHDGYATNDGNHPSCQETRDYAPPSRGYAYRDNGHSNRDEHSSRGYRNHRSSRETRDYAPPSRGHAYRDY  
 GHSRRDESYSRGYRNRRSSRETREYAPPSRGHGYRDYGHSSRRHESYSRGYRNHPSSRETREYAPPHRDYA  
 YRDYGHSSWDEHSSRGYSYHDGYGEALGRDHSEHLGSSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA  
 YSNTRDRYGRSWESYSSCGDFHYCDREHVCRKDQRNPPSLGRVLPDPREACGSSSYVASIVDGGESRSEK  
 GDSSRY

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_005058

**ORF Size:** 1488 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\\_005058.4](#)

**RefSeq Size:** 1900 bp

**RefSeq ORF:** 1491 bp

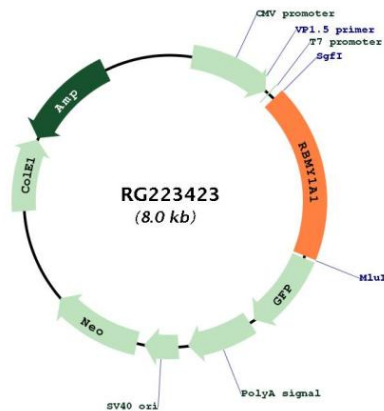
**Locus ID:** 5940

**UniProt ID:** [P0DJJ3](#)

**Cytogenetics:** Yq11.223

**Gene Summary:**

This gene encodes a protein containing an RNA-binding motif in the N-terminus and four SRGY (serine, arginine, glycine, tyrosine) boxes in the C-terminus. This protein is thought to function as a splicing regulator during spermatogenesis. Multiple closely related paralogs of this gene are found in a gene cluster in the AZFb azoospermia factor region of chromosome Y. Most of these related copies are thought to be pseudogenes, though several likely encode functional proteins. [provided by RefSeq, Mar 2016]

**Product images:**


Circular map for RG223423