

Product datasheet for **RG218382**

RBMYID (NM_001006120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RBMYID
Synonyms:	hRBMY; RBMI; RBM2; RBMY1A1; YRRM1; YRRM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG218382 ORF sequence, **codon optimized**.
Due to the complexity of NM_001006120, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGTAGAGCCGATCACCCAGGTAACTTTTATAGGTGGATTGAATCGCGAAACAAATGAGAAGATGC
TCAAGGCCGTGTTTCGGCAACACGGTCCCATAAGTGAAGTGTGCTGATTAAGGATAGAACCAGCAAGTC
CCGCGGCTTCGCTTTTATTACCTTTGAGAATCCTGCAGATGCCAAGAACGCCGCTAAAGATATGAACGT
AAGTCCCTGCACGGGAAGGCCATTAAGGTGGAACAGGCAAAAAACCTAGCTTCCAGAGCGCGGACGCA
GGCGACCCCGACGCAGTTCTCGCAACAGATCACCCAGTGTTCTCTAGGTCAGCGCGGGTAGTCGAGG
AGGTACAAGGGGATGGTTGCCCTCTCAGGAGGGCCATCTGGACGACGGCGGTTACACCCAGATCTGAAG
ATGAGTTATTCCAGAGGCTGATACCAAGTGAAGAGGCCCTTCTCTCGCTCAGGGGGACACCCCAA
AGAAGTCCGCACCAAGCGCGTCGCTCGCAGCAATTCTGGATGGGAGTCAAGGGCCAATGTCACAGCG
CAGAGAGAATTACGGAGTGCCTCTAGAAGAGCAACTATCTCTCTTGGCGGAACGATAGAATGTCCACT
CGGCATGATGGTTATGCCACCAATGACGGAACACCCAGCTGCCAGGAACAAGAGACTACGACCCAC
CTTCAAGAGGATATGCCTACAGGGATAATGGTCACTCCAATAGAGATGAACACTCTTCCAGAGGCTACCG
AAACACCGGTCTTCCAGGGAGACTCGAGACTACGCCCCCAAGCAGGGGACACGCATACCGAGATTAT
GGCCACAGTAGACGAGACGAAAGTTACTCTCGGGGCTACCGGAACAGACGAGTTCTCGGGAACTAGAG
AATATGCTCCGCCTTACGAGGTACGGGTATCGCGACTACGGTCATTCTCGCGACATGAGTCATATTC
TAGGGGTTACAGAAATCATCTTATCCCGCGAGACAAGGGACTATGCCCCCCCATAGAGATTATGCC
TATAGGGACTACGGCCATAGCAGCTGGGACGAGCAGCTCAGGAGCTACTCTTACCACGACGGGTATG
GGGAAGCACTGGGACGCGACCACTCAGAACATCTGAGCGGATCCAGTTATCGGGATGCACTTCAGAGATA
TGGAACCTCCACGGCGCGCCCCCGCGGCGCGCATGAGCTATGGGGCTCAACATGTCATGCC
TATTCCAATACCAGGGATCGCTACGGCAGGAGTTGGGAGAGCTATAGCTCATGTGGAGACTTTCTACT
GCGACAGAGAACAGTGTGTCGAAAGATCAGCGGAACCCCGTCCCTGGGAGAGTGCTCCCGATCC
TAGGGAGGCATGCGGGAGTAGCAGTACGTCGCCAGTATTGTTGACGGCGGGGAATCAAGGTCCGAAAAG
GGGGACAGCTCAAGATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218382 representing NM_001006120
Red=Cloning site Green=Tags(s)

MVEADHPGKLFIGGLNRETNEKMLKAVFGKHGPISEVLLIKDRTSKSRGFATITFENPADAKNAAKDMNG
KSLHGKAIKVEQAKKPSFQSGRRRPPASSRNRSPSGSLRSARGSRGGTRGWLPSQEGHLDGGYTPDLK
MSYSRGLIPVKRGPSSRSGPPPKKSAPSAVARNSWMGSQGPMSQRRENYGVPPRRATISSWRNDRMST
RHDGYATNDGNHPSCQETRDYAPPSRGYAYRDNGHSNRDEHSSRGYRNHRSSRETRDYAPPSRGHAYRDY
GHSRRDESYSRGYRNRRSSRETRDYAPPSRGHGYRDYGHSRRHESYSRGYRNHPSSRETRDYAPPHRDYA
YRDYGHSSWDEHSSRGYSYHDGYGEALGRDHSEHLGSSSYRDALQRYGTSHGAPPARGPRMSYGGSTCHA
YSNTRDRYGRSWESYSSCGDFHYCDREHVCRKDQRNPPSLGRVLPDPREACGSSSYVASIVDGGESRSEK
GDSSRY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001006120

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.

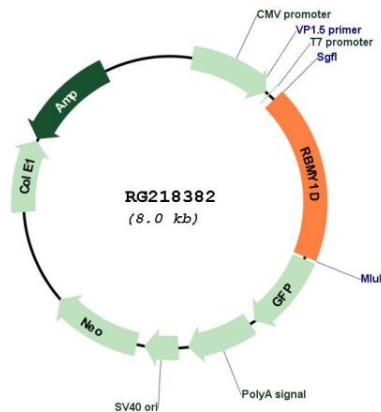
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001006120.2](#), [NP_001006120.2](#)

RefSeq Size: 1921 bp
RefSeq ORF: 1491 bp
Locus ID: 378949
UniProt ID: [P0C7P1](#)
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 likely functions as a splicing factor 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 RG218382