

## Product datasheet for **RG228362**

### RRM2 (NM\_001165931) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRM2 (NM_001165931) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RRM2
Synonyms:	C2orf48; R2; RR2; RR2M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228362 representing NM\_001165931  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGCACCAAAGCCAATGGGAAGGGCCG  
 GGAGCGCGCGCCGCGGGAGATTTAAAGGCTGCTGGAGTGAGGGGTCGCCGTGCACCCTGTCCCAGCCGT  
 CCTGTCCTGGCTGCTCGCTCTGCTTCGCTGCGCCTCCACTATGCTCTCCCTCCGTGTCCCCTCGCGCC  
 ATCACGGACCCGAGCAGCTGCAGCTCTCGCCGTGAAGGGGCTCAGCTTGGTCGACAAGGAGAACACGC  
 CGCCGGCCCTGAGCGGGACCCGCGTCTGGCCAGCAAGACCGCGAGGAGGATCTCCAGGAGCCACGGA  
 GCCGAAACTAAAGCAGCTGCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCGCCGCTTT  
 GTCATCTCCCCATCGAGTACCATGATATCTGGCAGATGTATAAGAAGGCAGAGGCTTCTTTTGGACCG  
 CCGAGGAGGTGGACCTCTCCAAGGACATTCAGCACTGGGAATCCCTGAAACCCGAGGAGAGATATTTAT  
 ATCCCATGTTCTGGCTTTCTTTGCAGCAAGCGATGGCATAGTAAATGAAAACCTTGGTGGAGCGATTTAGC  
 CAAGAAGTTCAGATTACAGAAGCCCGCTGTTTCTATGGCTTCAAATGGCATGGAAAACATACATTCTG  
 AAATGTATAGTCTTCTTATTGACACTTACATAAAAGATCCCAAAGAAAGGGAATTTCTCTTCAATGCCAT  
 TGAAACGATGCCTTGTGTCAAGAAGAAGGCAGACTGGGCCTTGCCTGGATTGGGGACAAAGAGGCTACC  
 TATGGTGAACGTGTTGTAGCCTTTGCTGCAAGTGAAGGCATTTTCTTTCCGGTCTTTTTCGCTCGATAT  
 TCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAACCTATTAGCAGAGATGAGGG  
 TTTACTGTGATTTTGCCTGATGTTCAACACCTGGTACACAAACCATCGGAGGAGAGAGTAAGA  
 GAAATAATTATCAATGCTGTTCCGATAGAACAGGAGTTCCTCACTGAGGCCTTGCCTGTGAAGCTCATTG  
 GGATGAATTGCCTCTAATGAAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAAGTGGGTTT  
 TAGCAAGGTTTTTCAGAGTAGAGAACCATTGACTTTTATGGAGAATATTTCACTGGAAGGAAAGACTAAC  
 TTCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTTA  
 CCTTGGATGCTGACTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228362 representing NM\_001165931  
 Red=Cloning site Green=Tags(s)

MGRVGGMAQPMGRAGAPKPMGRAGSARRGRFKGCWSEGPSVHPVPAVLSWLLALLRCASTMLSLRVPLAP  
 ITDPQQLQLSPLKGLSLVDKENTPPALSGTRVLASKTARRIFQEPTPEPKKAAAPGVEDEPLLRENPRRF  
 VIFPIEYHDIWQMYKKAESFWTAEVDLSKDIQHWESLKPEERYFISHVLAFFAASDGI VNEENLVERFS  
 QEVQITEARCFYGFQIAMENIHSEMYSLIDTYIKDPKEREFLFNAIETMPCVKKKADWALRWIGDKEAT  
 YGERVVFAAVEGIFFSGSFASIFWLKRLMPGLTFSNELISRDEGLHCDFACLMFKHLVHKPSEERV  
 EIIINAVRIEQEFLTEALPVKLI GMNCTLMKQYIEFVADRLMLELGF SKVFRVENPFDFMENISLEGKTN  
 FFEKRVGEYQRMGMSSPTENSFTLDADF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001165931

**ORF Size:** 1347 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

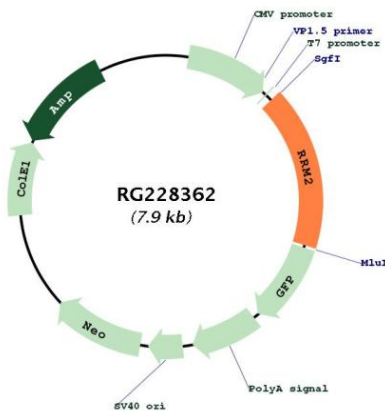
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001165931.1](#), [NP\\_001159403.1](#)

RefSeq Size:	3452 bp
RefSeq ORF:	1350 bp
Locus ID:	6241
UniProt ID:	<a href="#">P31350</a>
Cytogenetics:	2p25.1
Protein Families:	Druggable Genome
Protein Pathways:	Glutathione metabolism, Metabolic pathways, p53 signaling pathway, Purine metabolism, Pyrimidine metabolism
Gene Summary:	This gene encodes one of two non-identical subunits for ribonucleotide reductase. This reductase catalyzes the formation of deoxyribonucleotides from ribonucleotides. Synthesis of the encoded protein (M2) is regulated in a cell-cycle dependent fashion. Transcription from this gene can initiate from alternative promoters, which results in two isoforms that differ in the lengths of their N-termini. Related pseudogenes have been identified on chromosomes 1 and X. [provided by RefSeq, Sep 2009]

**Product images:**



Circular map for RG228362