

## Product datasheet for **MG205344**

### **Rrm2b (NM\_199476) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rrm2b (NM\_199476) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rrm2b  
**Synonyms:** p53R2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205344 representing NM\_199476  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGACCCGGAAAGGCCGGAAGCGGCCAGGCCGGAGAAGGGTGAGCAATTGTGTTCCGGAGACAGAAG  
AAAATGTGGTGAGGTCAAATGAAGAGCCACTCCTAAGAAAGAGTCCCGACGGTTCGTCATCTTTCCAAT  
CCAGTATCCTGATATCTGGAGAATGTACAAGCAAGCACAGGCATCTTTCTGGACAGCAGAGGAGGTTGAC  
TTGTCAAAGGACCTCCCTCACTGGAACAAGCTTAAATCCGACGAGAAGTATTTTATCTCCCACATCTTAG  
CCTTTTTTGCAGCCAGTGATGGAATTGTAATGAAAACCTTGGTGGAGCGTTTTAGTCAGGAGGTGCAGGT  
TCCAGAGGCTCGCTGCTTCTATGGCTTTCAGATTCATCGAGAATGTTCACTCAGAGATGTACAGTTTA  
CTAATAGACACTTACATCAGAGATCCAAAGAAAAGGGAATTTTTATTTAATGCAATTGAAACAATGCCAT  
ATGTTAAGAAAAAGCGGACTGGGCTCTGCGCTGGATAGCAGATAGGAAATCTACTTTTGGGAAAAGAGT  
GGTGGCCTTTGCTGTGGAAGGAATTTCTTCTCTGGATCATTGTGCAATATTCTGGCTAAAGAAG  
AGAGGCCCTCATGCCTGGACTGACTTTTTCAAATGAACTGATCAGCAGGGATGAAGGACTTCACTGTGACT  
TTGCCTGCCTGATGTTTCAGTACTTGGTAAACAAGCCTCAGAAGATAGAGTGAGGAAAATCATTGCTGA  
TGCTGTCAAACAGTACATTGAGTTTGTAGCTGACAGATTACTTGGAGAACTTGGATTCTCAAAGATTTTTTC  
AGGCAGAAAATCCCTTTGATTTTATGGAGAACATTTTCATTAGAAGGAAAACAAATTTCTTTGAGAAACG  
AGTTTCTGAGTATCAGCGATTTGCAGTCATGGCCGAAACCACAGATAATGTCTTACCTTGGATGCAGAT  
TTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205344 representing NM\_199476  
 Red=Cloning site Green=Tags(s)

MGDPERPEAARPEKGEQLCSETEENVRSNEEPLLRKSSRRFVIFPIQYVDIWRMYKQAQASFWTAEED  
 LSKDLPHWNKLSDEKYFISHILAFFAASDGINVENLVERFSQEVQVPEARCFYGFQILIENVHSEMYSL  
 LIDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRKSTFGERVVAFAAVEGIFSGSFAAIFWLKK  
 RGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEDRVREIIADAVQIEQEFLTEALPVGLIGMNCV  
 LMKQYIEFVADRLLGELGFSKIFQAENPFDFMENISLEKGTNFFEKRVSEYQRFAYMAETTDNVFTLDAD  
 F

TRTRPLE - GFP Tag - V

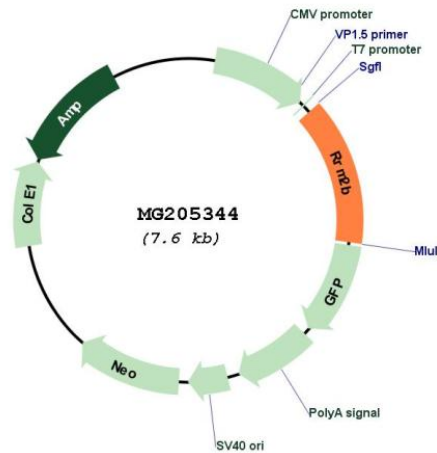
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_199476

<b>ORF Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_199476.1</a> , <a href="#">NP_955770.1</a>
<b>RefSeq Size:</b>	4532 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	382985
<b>UniProt ID:</b>	<a href="#">Q6PEE3</a>
<b>Cytogenetics:</b>	15 B3.1
<b>Gene Summary:</b>	Plays a pivotal role in cell survival by repairing damaged DNA in a p53/TP53-dependent manner. Supplies deoxyribonucleotides for DNA repair in cells arrested at G1 or G2. Contains an iron-tyrosyl free radical center required for catalysis. Forms an active ribonucleotide reductase (RNR) complex with RRM1 which is expressed both in resting and proliferating cells in response to DNA damage.[UniProtKB/Swiss-Prot Function]