

Product datasheet for MR205344

Rrm2b (NM_199476) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rrm2b (NM_199476) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rrm2b
Synonyms:	p53R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205344 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACCCGAAAGGCCGGAAGCGGCCAGGCCGGAGAAGGGTGAGCAATTGTGTTCCGGAGACAGAAG
AAAATGTGGTGAGGTCAAATGAAGAGCCACTCCTAAGAAAGAGTCCCGACGGTTCGTCATCTTTCCAAT
CCAGTATCCTGATATCTGGAGAATGTACAAGCAAGCACAGGCATCTTTCTGGACAGCAGAGGAGGTTGAC
TTGTCAAAGGACCTCCCTCACTGGAACAAGCTTAAATCCGACGAGAAGTATTTTATCTCCACATCTTAG
CCTTTTTTGCAGCCAGTGATGGAATTGTAATGAAAACCTTGGTGGAGCGTTTTAGTCAGGAGGTGCAGGT
TCCAGAGGCTCGCTGCTTCTATGGCTTTCAGATTCATCGAGAATGTTCACTCAGAGATGTACAGTTTA
CTAATAGACACTTACATCAGAGATCCAAAGAAAAGGGAATTTTTATTTAATGCAATTGAAAACATGCCAT
ATGTTAAGAAAAAGCGGACTGGGCTCTGCGCTGGATAGCAGATAGGAAATCTACTTTTGGGAAAGAGT
GGTGGCCTTTGCTGTGGAAGGAATTTCTTCTCTGGATCATTGTGCAATATTCTGGCTAAAGAAG
AGAGGCCCTCATGCCTGGACTGACTTTTTCAAATGAACTGATCAGCAGGGATGAAGGACTTCACTGTGACT
TTGCCTGCCTGATGTTTCAGTACTTGGTAAACAAGCCTCAGAAGATAGAGTGAGGAAAACATTGCTGA
TGCTGTTCAAATCGAGCAGGAGTTTTTAACAGAAGCCTTGCTGTTGGCCTCATTGGAATGAACTGTGTT
TTGATGAAACAGTACATTGAGTTTGTAGCTGACAGATTACTTGGAGAACTGGATTCTCAAAGATTTTTTC
AGGCAGAAAATCCCTTTGATTTTATGGAGAACATTTTCATTAGAAGGAAAACAAATTTCTTTGAGAAACG
AGTTTCTGAGTATCAGCGATTTGCAGTCATGGCCGAAACCACAGATAATGTCTTACCTTGGATGCAGAT
TTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205344 protein sequence
 Red=Cloning site Green=Tags(s)

MGDPERPEAARPEKGEQLCSETEENVRSNEEPLLRKSSRRFVIFPIQYVDIWRMYKQAQASFWTAEED
 LSKDLPHWNKLSDEKYFISHILAFFAASDGIVNENLVERFSQEVQVPEARCFYGFQIL IENVHSEMYSL
 LIDTYIRDPKKREFLFNAIETMPYVKKKADWALRWIADRKSTFGERVVAF AAVEGIFFGSFAAIFWLKK
 RGLMPGLTFSNELISRDEGLHCDFACL MFQYLVNKPSEDRVREIIADAVQIEQEFLTEALPVGLIGMNCV
 LMKQYIEFVADRLLGELGFSKIFQAENPFDFMENISLEGKTNFFEKRVSEYQRF AVMAETTDNVFTLDAD
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_199476

ORF Size: 1056 bp

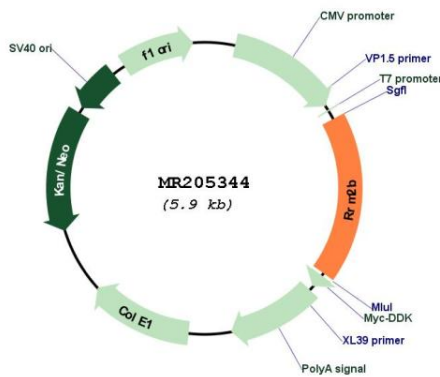
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_199476.1](#), [NP_955770.1](#)
- RefSeq Size:** 4532 bp
- RefSeq ORF:** 1056 bp
- Locus ID:** 382985
- UniProt ID:** [Q6PEE3](#)
- Cytogenetics:** 15 B3.1
- MW:** 40.8 kDa
- Gene Summary:** 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]

Product images:



Circular map for MR205344