

Product datasheet for MC207972

Rrm2b (NM_199476) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rrm2b (NM_199476) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rrm2b
Synonyms:	p53R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207972 representing NM_199476 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGACCCGGAAAGGCCGGAAGCGGCCAGGCCGGAGAAGGGTGAGCAATTGTGTTCCGGAGACAGAAG
AAAATGTGGTGAGGTCAAATGAAGAGCCACTCCTAAGAAAGAGTCCCGACGGTTCGTCATCTTTCCAAT
CCAGTATCCTGATATCTGGAGAATGTACAAGCAAGCACAGGCATCTTTCTGGACAGCAGAGGAGGTTGAC
TTGTCAAAGGACCTCCCTCACTGGAACAAGCTTAAATCCGACGAGAAGTATTTATCTCCACATCTTAG
CCTTTTTTGCAGCCAGTGATGGAATTGTAATGAAAACCTTGGTGGAGCGTTTTAGTCAGGAGGTGCAGGT
TCCAGAGGCTCGCTGCTTCTATGGCTTTCAGATTCCTCATCGAGAATGTTCACTCAGAGATGTACAGTTTA
CTAATAGACACTTACATCAGAGATCCAAAGAAAAGGGAATTTTTATTTAATGCAATTGAAACAATGCCAT
ATGTTAAGAAAAAGCGGACTGGGCTCTGCGCTGGATAGCAGATAGGAAATCTACTTTTGGGGAAAGAGT
GGTGGCCTTTGCTGTGGAAGGAATTTCTTCTCTGGATCATTGCTGCAATATTCTGGCTAAAGAAG
AGAGGCCTCATGCCTGGACTGACTTTTTCAAATGAACTGATCAGCAGGGATGAAGGACTTCACTGTGACT
TTGCCTGCCTGATGTTTCAGTACTTGGTAAACAAGCCTCAGAAGATAGAGTGAGGGAATCATTGCTGA
TGCTGTTCAAATCGAGCAGGAGTTTTTAACAGAAGCCTTGCTGTTGGCCTCATTGGAATGAACTGTGTT
TTGATGAAACAGTACATTGAGTTTGTAGCTGACAGATTACTTGGAGAACTGGATTCTCAAAGATTTTTTC
AGGCAGAAAATCCCTTTGATTTTATGGAGAACATTTTCATTAGAAGGGAACAAATTTCTTTGAGAAACG
AGTTTCTGAGTATCAGCGATTTGCAGTCATGGCCGAAACCACAGATAATGTCTTCACCTTGATGCAGAT
TTC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2614_a09.zip



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_199476
Insert Size:	1056 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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:	BC058103 , AAH58103
RefSeq Size:	4532 bp
RefSeq ORF:	1056 bp
Locus ID:	382985
UniProt ID:	Q6PEE3
Cytogenetics:	15 B3.1
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]