

Product datasheet for **RR210037**

Rrm2 (NM_001025740) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Rrm2 (NM_001025740) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Rrm2
 Synonyms: MGC116120
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR210037 representing NM_001025740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTCGGTCCGCGCCCGCTCGCCACCATCGCTGACCAGCAGCAGCTGCACTTGTGCCCCCTGAAGC
 GACTCAGTCTGGCTGACAAGGAGAACACGCCCAACCCTCAGCAGCGCCCGCTCTGGCTAGCAAGGC
 TGCAAGGAGAATCTCCAGGACTCTGCCGAGCTGGAAAGTAAAGCACCCACTAAGCCAGCATTGAGGAA
 GAGCCGTTACTGAGAGAAAATCCCGCCGTTTCGTTGTCTTTCCCATCGAATACCATGATATCTGGCAGA
 TGTACAAGAAAGCTGAGGCTCCTTTTGGACTGCCGAGGAGGTGGACCTTTCCAAGGATATTCAGCACTG
 GGAAGCTCTGAAACCAGATGAGAGACATTTTATATCTCATGTTCTGGCCTTCTTTGCGGCGAGTGACGGC
 ATAGTCAATGAGAACTTGGTGGAGCGATTTAGCCAAGAAGTTCAAGTACAGAGGCCCGCTGTTTCTATG
 GCTTCAAATGGCATGGAGAACATACACTCCGAAATGTACAGTCTCCTTATTGACACTTACATTAAGA
 TTCAAAGAAAGAGAATATCTCTCAACGCCATTGAGACAATGCCTTGTGTGAAGAAGAAGGCTGACTGG
 GCCTTGCCTTGGATTGGGGACAAAGAGGCTACGTATGGAGAACGAGTTGTGGCCTTCGCTGCGGTAGAAG
 GAATCTTCTTTCTGGTCTTTTGCATCAATATTCTGGCTCAAGAAACGGGGACTGATGCCGGCCCTTAC
 ATTTTCCAATGAGCTTATTAGCAGAGATGAGGGTCTGCACTGTGACTTTGCCTGCCTGATGTTCAAGCAC
 CTGGTACACAAGCCCTCGGAGCAGAGAGTAAAAGAAATAATTACCAACTCGGTACAGGATAGAGCAGGAGT
 TCCTCACAGAGGCCCTGCCTGTGAAGCTCATCGGGATGAATTGCACCTTGATGAAGCAGTACATCGAGTT
 TGTGGCCGACAGGCTTATGCTGGAGCTGGGTTTTAACAAGATTTTCAAAGTAGAAAATCCATTTGACTTC
 ATGGAGAATATTTCACTAGAAGGAAAAACAACTTCTTTGAGAAGCGAGTAGGCGAGTACCAGAGGATGG
 GAGTAATGTCAAATTCGACAGAAAATCTTTACCTTGGATGCTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210037 representing NM_001025740
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MLSVRAPLATIADQQQLHLSPLKRLSLADKENTPPTLSSARVLASKAARRIFQDSAELESKAPTTPSIEE
 EPLLRENPRRFVVFPIEYHDIWQMYKKAASFWEAEVDLSKDIQHWEALKPDERHFISHVLAFFAASDG
 IVNENLVERFSQEVQVTEARCFYGFQIAMENIHSEMYSLLIDTYIKDSKEREYLFNAIETMPCVKKKADW
 ALRWIGDKEATYGERVVAFAAVEGIFFSGSFASIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLMFKH
 LVHKPSEQRVKEIITNSVRIEQEFLTEALPVKLI GMNCTLMKQYIEFVADRLMLELGFNKIFKVENPFDF
 MENISLEGKTNFFEKRVGEYQRMGVMSNSTENSFTLDADF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

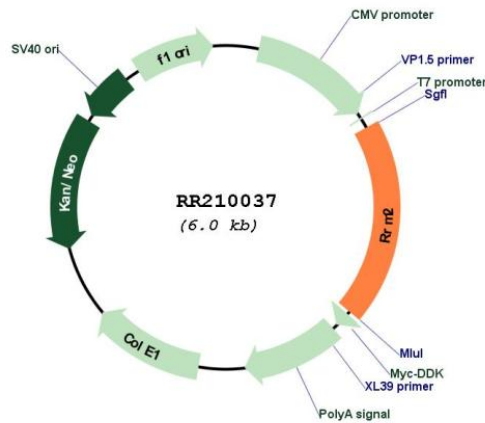
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025740

ORF Size:	1170 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:	<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:	NM_001025740.1 , NP_001020911.1
RefSeq Size:	2563 bp
RefSeq ORF:	1173 bp
Locus ID:	362720
UniProt ID:	Q4KLN6
Cytogenetics:	6q16
MW:	45 kDa
Gene Summary:	putative ribonucleotide reductase enzyme; human homolog is required for formation of deoxyribonucleotides from ribonucleotides [RGD, Feb 2006]