

Product datasheet for **SC326997**

RRM2 (NM_001165931) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRM2 (NM_001165931) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRM2
Synonyms:	C2orf48; R2; RR2; RR2M
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene ORF sequence for NM_001165931 edited</p> <pre> ATGGGAAGGGTTCGGAGGCATGGCACAGCCAATGGGAAGGGCCGGGCACCAAAGCCAATG GGAAGGGCCGGGAGCGCGCGCGGGAGATTTAAAGGCTGCTGGAGTGAGGGTTCGCC GTGCACCCTGTCCAGCGTCTGTCTGCTGCTCGCTCTGCTTCGCTGCGCCTCCA ATGCTCTCCCTCCGTGTCCCGCTCGCGCCATCACGGACCCGAGCAGCTGCAGCTCTCG CCGCTGAAGGGCTCAGCTTGGTCGACAAGGAGAACACGCGCCGGCCCTGAGCGGGACC CGCGTCTGGCCAGCAAGACCGGAGGAGGATCTCCAGGAGCCACGGAGCCGAAAAC AAAGCAGCTGCCCGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCCCGCCGCTTT GTCATCTTCCCATCGAGTACCATGATATCTGGCAGATGTATAAGAAGGCAGAGGCTTC TTTTGGACCGCCGAGGAGGTGGACCTCTCAAGGACATTCAGCACTGGGAATCCCTGAAA CCCGAGGAGAGATATTTATATCCCATGTTCTGGCTTTCTTTCAGCAAGCGATGGCATA GTAAATGAAAACCTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCTGT TTCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATT GACACTTACATAAAAGATCCCAAAGAAAGGGAATTTCTCTTCAATGCCATTGAAACGATG CCTTGTGTCAAGAAGAAGGCAGACTGGGCCTTGCCTGGATTGGGGACAAAGAGGCTACC TATGGTGAACGTGTTGTAGCCTTGTGCTGAGTGGAAAGCATTTCTTTCCGGTCTTTT GCGTCGATATTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAA CTTATTAGCAGAGATGAGGGTTTACACTGTGATTTTCTTGCCTGATGTTCAAACACCTG GTACACAAACCATCGGAGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTCCGATAGAA CAGGAGTTCCTCACTGAGGCCTTGCCTGTGAAGCTCATTGGGATGAATTGCACTTAATG AAGCAATACATTGAGTTTGTGGCAGACAGACTTATGCTGGAAGTGGGTTTTAGCAAGGTT TTCAGAGTAGAGAACCCATTTGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAAC TTCTTTGAGAAGAGAGTAGGCGAGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAG AATTCTTTTACCTTGGATGCTGACTTCTAA </pre>
Restriction Sites:	NotI-NotI



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ACCN:	NM_001165931
Insert Size:	3400 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>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001165931.1.
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_001165931.1 , NP_001159403.1
RefSeq Size:	3452 bp
RefSeq ORF:	1350 bp
Locus ID:	6241
UniProt ID:	P31350
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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).