

## Product datasheet for **RC228160**

### RDM1 (NM\_001163122) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: RDM1 (NM\_001163122) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: RDM1  
 Synonyms: RAD52B  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC228160 representing NM\_001163122  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCATTTACTTGTCCCACCCACAGCATTCTCTGTTCCAGCATTTTCTCAGTTTGGCCTTCTGTATT  
 CAGTCCGGGTCTCCAAATGCTGCAGTGGCCATCCTGGTTTCTATGCCGTCATTAAGTTTTATTCTGC  
 AAGGGCTGCCACAGAGCCAAAAGGCATGCGACCGGAAGCAGCTTTTTAGAAAATCTCCAGTCAAGTT  
 CGTCTTGGCACCAGACATAAGGCAGTTCAACATCAAGCCCTTGCCTGAACAGTTCAAAATGCCAAGAAC  
 TGGCGAATTACTACTTTGGTTTCAATGGGTGTTCCAAAAGGATCATCAAGCTTCAGGAGCTTCTGACCT  
 TGAAGAAAAGGAAAATGAAGATAGCATGGTGCCACTTCCGAAGCAAAGCCTGAAGTTCTTCTGTGCTTTA  
 GAAGTGGTGTGGCATCCTGTGATTGCAGGAGTCTGGCATTGGCTTGGTGGAGGAGCCTATGGATAAGG  
 TGGAGGAAGAAAGTGGTAAAATAGCTGTGGAGTACAGACCCAGTGAAGACATCGTAGGTGTGAGTGC  
 AGAAGAACTACACGGTTAATCAAGTCCCTTGCTCTCCCTGGAAGCAGTATGGCCAAGAGGAGGAAGGG  
 TATCTCTCGGATTCAGCTTGGAGGAGGAAGAGTTCAGGCTGCCAGAACTTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC228160 representing NM\_001163122  
Red=Cloning site Green=Tags(s)

MHLLVPPPQHSLFTAFSQFGLLYSVRVFPNAAVAHPGFYAVIKFYSARAAHRAQKACDRKQLFQKSPVKV  
 RLGTRHKAVQHQALALNSSKQCQELANYFYGNGCSKRIIKLQELSDLEERENEDSMVPLPKQSLKFFCAL  
 EVVLPSCDCRSPGIGLVEEPMDKVEEESGKIAVEYRPSIEDIVGVRCEEELHGLIQVPCSPWKQYQEQEEEG  
 YLSDFSLEEEEFRLPELD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001163122

**ORF Size:** 684 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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001163122.1](#), [NP\\_001156594.1](#)

**RefSeq ORF:** 687 bp

**Locus ID:** 201299

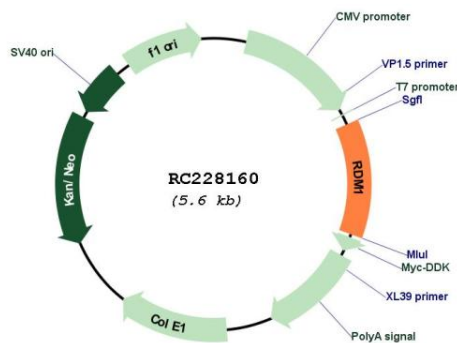
**UniProt ID:** [Q8NG50](#)

**Cytogenetics:** 17q12

**MW:** 25.7 kDa

**Gene Summary:** This gene encodes a protein involved in the cellular response to cisplatin, a drug commonly used in chemotherapy. The protein encoded by this gene contains two motifs: a motif found in RAD52, a protein that functions in DNA double-strand breaks and homologous recombination, and an RNA recognition motif (RRM) that is not found in RAD52. The RAD52 motif region in RAD52 is important for protein function and may be involved in DNA binding or oligomerization. Alternatively spliced transcript variants encoding different isoforms have been reported. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC228160