

# **Product datasheet for RC228182**

### RDM1 (NM\_001163121) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: RDM1 (NM\_001163121) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: RDM1

**Synonyms:** RAD52B

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC228182 representing NM\_001163121
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGAGTTGGTACCTTTTGCGGTTCCCATCGAGAGTGACAAAACCTTGCTAGTGTGGGAGCTGAGCT
CCGGACCCACGGCCGAGGCTTTGCATCATTCTCTGTTCACAGCATTTTCTCAGTTTGGCCTTCTGTATTC
AGTCCGGGTCTTCCCAAATGCTGCAGTGGCCCATCCTGGTTTCTATGCCGTCATTAAGTTTTATTCTGCA
AGGGCTGCCCACAGAGCCCAAAAGGCATGCGACCGGAAGCAGCTTTTTCAGAAATCTCCAGTCAAGGTTC
GTCTTGGCACCAGAACATAAGGCAGTTCAACATCAAGCCCTTGCCCTGAACAGTTCCAAATGCCAAGAACT
GGCGAATTACTACTTTGGTTTCAATGGGTGTTCCAAAAGGATCATCAAGCTTCAGGAGCTTTCTGACCTT
GAAGAAAGGGAAAATGAAGATAGCATGGTGCCACTTCCGAAGCAAAGCCTGAAGTTCTTCTGTGCTTTAG
AAGTGGTGTTGCCATCCTGTGATTGCAGGAGTCCTGGCATTGGCTTGGTGGAGGAGCCTATGGATAAGGT
GGAGGAAGAAAGTGGTAAAATAGCTGTGGAGTACAGACCCAGTGAAGACATCGTAGGTTCAGATGCGAA
GAAGAACTACACGGTTTAATTCAAGTCCCTTGCTCTCCCTGGAAGCAGTATGGCCAAGAGGAGGAAGGGT
ATCTCTCGGATTTCAGCTTGGAGGAGGAAGAGTTCAGCCCAGAACCTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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### RDM1 (NM\_001163121) Human Tagged ORF Clone - RC228182

Protein Sequence: >RC228182 representing NM\_001163121

Red=Cloning site Green=Tags(s)

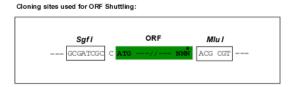
MAELVPFAVPIESDKTLLVWELSSGPTAEALHHSLFTAFSQFGLLYSVRVFPNAAVAHPGFYAVIKFYSA RAAHRAQKACDRKQLFQKSPVKVRLGTRHKAVQHQALALNSSKCQELANYYFGFNGCSKRIIKLQELSDL EERENEDSMVPLPKQSLKFFCALEVVLPSCDCRSPGIGLVEEPMDKVEEESGKIAVEYRPSEDIVGVRCE EELHGLIQVPCSPWKQYGQEEEGYLSDFSLEEEEFRLPELD

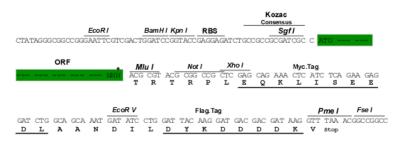
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001163121

ORF Size: 753 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:** <u>NM 001163121.2</u>

 RefSeq ORF:
 756 bp

 Locus ID:
 201299

 UniProt ID:
 Q8NG50

 Cytogenetics:
 17q12

 MW:
 28.1 kDa

**Gene Summary:** This gene encodes a protein involved in the cellular response to cisplatin, a drug commonly

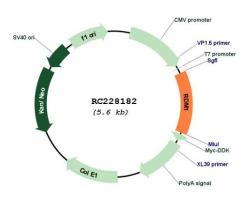
used in chemotherapy. The protein encoded by this gene contains two motifs: a motif found

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 RC228182