

## Product datasheet for **RG217647**

### **RDM1 (NM\_145654) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RDM1 (NM\_145654) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** RDM1  
**Synonyms:** RAD52B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG217647 representing NM\_145654  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCGGAGTTGGTACCTTTTTCGGTCCCATCGAGAGTGACAAAACCTTGCTAGTGTGGGAGCTGAGCT  
CCGGACCCACGGCCGAGGCTTTGCATCATTCTCTGTTACAGCATTTCAGTTTGGCCTTCTGTATTC  
AGTCCGGTCTTCCCAAATGCTGCAGTGGCCCATCCTGGTTTCTATGCCGTCATTAAGTTTTATTCTGCA  
AGGGCTGCCACAGAGCCAAAAGGCATGCGACCGGAAGCAGCTTTTTCAGAAATCTCCAGTCAAGGTTCC  
GTCTTGGCACCAGACATAAGGCAGTTCAACATCAAGCCCTTGCCTGAACAGTTCCAATGCCAAGAACT  
GGCGAATTACTACTTTGGTTTCAATGGGTGGTCCAAAAGGATCATCAAGCTTCAGGAGCTTCTGACCTT  
GAAGAAAGGAAAATGAAGATAGCATGGTGCCACTTCCGAAGCAAAGCCTGAAGTTCTTCTGTGCTTTAG  
AAGTGGTGTGGCATCCTGTGATTGCAGGAGTCCGGCATTGGCTTGGTGGAGGAGCCTATGGATAAGGT  
GGAGGAAGGACATTATCATTCTTATGAAAAGGAAGACAGCCAGAAAGCTTGGTATTTCAGAAAGGCTTTG  
TCAGATGCATTCCAGAAACTGTTGATTGTTGTTCTAGAAAAGTGGTAAAATAGCTGTGGAGTACAGACCCA  
GTGAAGACATCGTAGGTGTCAGATGCGAAGAAGAACTACACGGTTTAATTCAAGTCCCTTGTCTCCCTG  
GAAGCAGTATGGCCAAGAGGAGGAAGGGTATCTCTCGGATTTTCAGCTTGGAGGAGGAAGATTCAGGCTG  
CCAGAACTTGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217647 representing NM\_145654  
 Red=Cloning site Green=Tags(s)

MAELVPFAVPIESDKTLLVWELSSGPTAEALHHSLLFTAFSQFGLLYSVRVFPNAAVAHPGFYAVIKFYSA  
 RAAHRAQKACDRKQLFQKSPVKVRLGTRHKAVQHQALALNSSKCQELANYFQFNGWSKRIIKLQELSDL  
 EERENEDSMVPLPKQSLKFFCALEVVLPSDCRSPGIGLVEEPMDKVEEGPLSFLMKRRTAQKLAIQKAL  
 SDAFQKLLIVVLESGKIAVEYRPSIEDIVGVRCEEELHGLIQVPCSPWKQYQEEEEGLSDFSLIEEEEFRL  
 PELD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145654

**ORF Size:** 852 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.

**RefSeq:** [NM\\_145654.3](#), [NP\\_663629.1](#)

**RefSeq Size:** 1166 bp

**RefSeq ORF:** 855 bp

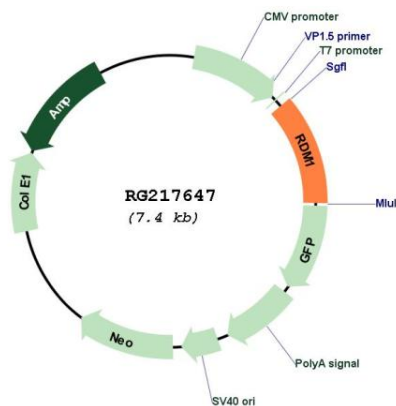
**Locus ID:** 201299

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

**Cytogenetics:** 17q12

**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 RG217647