

Product datasheet for RG228081

RDM1 (NM 001163124) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RDM1 (NM_001163124) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: RDM1

Synonyms: RAD52B

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG228081 representing NM_001163124
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCATTTACTTGTCCCACCCCCACAGCATTCTCTGTTCACAGCATTTTCTCAGTTTGGCCTTCTGTATT CAGTCCGGGTCTTCCCAAATGCTGCAGTGGCCCATCCTGGTTTCTATGCCGTCATTAAGTTTTATTCTGC AAGGGCTGCCCACAGAGCCCAAAAGGCATGCGACCGGAAGCAGCTTTTTCAGAAATCTCCAGTCAAGGTT CGTCTTGGCACCAGAACATAAGGCAGTTCAACATCAAGCCCTTGCCCTGAACAGTTCCAAATGCCAAGAAC TGGCGAATTACTACTTTGGTTTCAATGGGTGTTCCAAAAAGGATCATCAAGGTCCCTTGCTCTCCCTGGAA GCAGTATGGCCAAGAGGAAGAGGAAGAGGTATCTCTCCGGATTTCAGCTTGGAGGAGGAAGAGTTCAGGCTGCCA

GAACTTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228081 representing NM_001163124

Red=Cloning site Green=Tags(s)

MHLLVPPPQHSLFTAFSQFGLLYSVRVFPNAAVAHPGFYAVIKFYSARAAHRAQKACDRKQLFQKSPVKV RLGTRHKAVQHQALALNSSKCQELANYYFGFNGCSKRIIKVPCSPWKQYGQEEEGYLSDFSLEEEEFRLP

ELD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



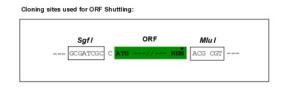
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

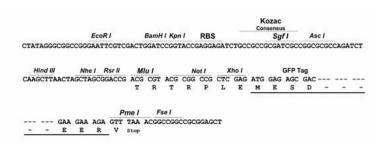
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

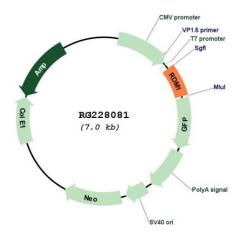


Cloning Scheme:





Plasmid Map:



ACCN: NM 001163124

ORF Size: 429 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.

RDM1 (NM_001163124) Human Tagged ORF Clone - RG228081

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: <u>NM 001163124.1</u>, <u>NP 001156596.1</u>

 RefSeq Size:
 711 bp

 RefSeq ORF:
 432 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]