

## Product datasheet for **RG205187**

### MDM1 (NM\_017440) Human Tagged ORF Clone

#### Product data:

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | MDM1 (NM_017440) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                |
| Symbol:                   | MDM1                                    |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-AC-GFP (PS100010)                 |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**ORF Nucleotide  
Sequence:**

>RG205187 representing NM\_017440  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGCCGCTGCGCTTCAAGGGCTGAGTGAATACCAGAGGAACCTCCTGTGGAAAAAGTCTTATTTGTCAG  
 AGTCTTGAATTCCTCCGTGGGGCGAAAGTACCCATGGGCTGGACTTAGATCAGATCAATTAGGCATCAC  
 GAAAGAGCCAAGTTTTATTTCAAAAAGAAGAGTCCCTTACCATGACCCACAGATTCAAAATCTCTGGAG  
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 AAGCCATAAGACTTTGCAGAAATGTCTTCTACAGAACCAGAAGAAAAAGGAAATATCGTGGAGAAGACAG  
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 GGGATACAGAGAACACAAGTGAAGACGTACAGAAACAGCCCGGGGAGAAAGAGGAGGAGGACGACATGA  
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 TTCAGCACAATGTGGGAAAAGCAAGGATGAACAATTTGCAGTTACCTCAACATGAAGCCTTTAATGATGA  
 AGATGAGGACAGATTGTCTGAGATTTCTGCTCGCTCTGCAGCTTCTAGTCTCCGGGCTTTTCAAACCTCTG  
 GCACGAGCTAAGAAAAGGAAGGAGAATTTCTGGGGTAAAAACA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

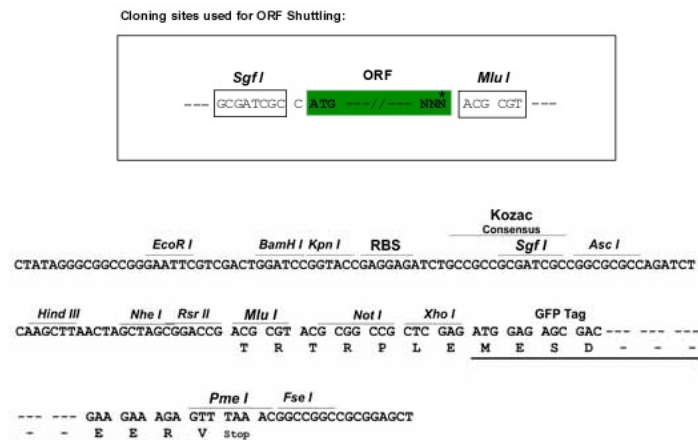
**Protein Sequence:** >RG205187 representing NM\_017440  
 Red=Cloning site Green=Tags(s)

MPVRFKGLSEYQRNFWKKSYSLESCNSSVGRKYPWAGLRSDQLGITKEPSFISKRRVPYHDPQISKSLE  
 WNGAISESNVVASPEPEAPETPKSQEAEQKDVIERVHSLEASRVPKRTRSHSADSRAEGASDVNNEGV  
 TNHTPVNENVELEHSTKVLSENVNGLDRLLRKKAGLTVVPSYNALRNSEYQRQFVWKTSKETAPAFAN  
 QVFHNKSQFVPPFKGNSVIHETEKRNFKGLSPVKEPKLRNDLRENRLNLETVSPERKSNKIDRLKLEAE  
 MELKDLHQPKRKLTPWKHQRLGKVNSEYRAKFLSPAQYLKAGAWTHVKGNMNPQVKELREKAEFYRKR  
 QGTHFSRDHLNQILSDSNCCWDVSSTTSSEGTSSNIRALDLAGDPTSHKTLQKCPSTEPEEKGNIVVEEQ  
 PQKNTTEKLGVSAPTIPVRRRLAWDTENTSEDVQKQPGKEEEDDNEEEGDRKTGKQAFMGEQEKLDVHE  
 KSKADMKMEGSDSSVSSEKGGRLPTPKLRELGGIQRTHHDLTPAVGGAVLVSPSKMKPPALEQRKRMTS  
 QDCLETSKNDFTKKESTRAVSLTSPAAGIKTVDPPLREDSEDNIHKFAEATLPVSKIPKYPTNPPGQLP  
 SPHPVPSYWHPSRRIQGSRLRDEPQHNVGKARMNNLQLPQHEAFNDEDEDRLSEISARSAASSLRAFQTL  
 ARAKKRKENFWGKT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_017440

**ORF Size:** 2142 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\\_017440.3](#)

**RefSeq Size:** 2937 bp

**RefSeq ORF:** 2145 bp

**Locus ID:** 56890

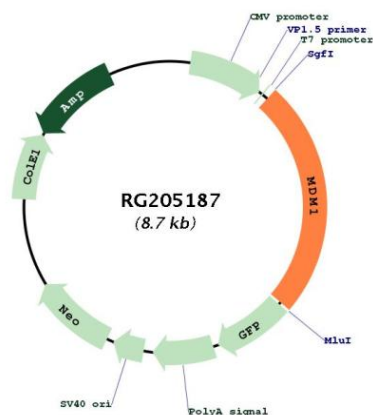
**UniProt ID:** [Q8TC05](#)

**Cytogenetics:** 12q15

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a microtubule-binding nuclear protein that localizes to the centrioles of dividing cells and differentiating multiciliated cells and negatively regulates centriole duplication. The encoded protein is closely associated with the centriole barrel, and resides in the centriole lumen. Naturally-occurring mutations in the orthologous mouse gene are associated with age-related retinal degeneration. [provided by RefSeq, Feb 2019]

## Product images:



Circular map for RG205187