

## Product datasheet for RC233403

### MMD2 (NM\_001270375) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MMD2 (NM\_001270375) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** MMD2  
**Synonyms:** PAQR10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233403 representing NM\_001270375  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCCGCCCCGGCTGCTGGATTTCCAGAAGACGAAATACGCGAGGTTTCATGAACCACCGAGTCCCTG  
 CCCACAAGAGGTACCAGCCACAGAGTATGAACATGCGGCCAACTGTGCCACCCATGCTTCTGGATCAT  
 CCCAGCATCCTGGCAGCTCCAACCTCTACTTCTGTCCGACGATGACTGGGAGACCATCTCTGCCTGG  
 ATCTACGGCCTCGGCCTCTCGGCCTCTTCGTGGTGTCCACTGTGTTTCACACCATCTCCTGGAAGAAGA  
 GCCACCTCAGGATGGTGAACACTGTCTACACATGTTCCGACCGGATGGTCATCTATTTCTCATAGCGGC  
 TTCTACGCACCCTGGCTGAACCTTCGGGAGCTGGGCCCTGGGCCTCCCACATGCGCTGGCTGGTCTGG  
 ATTATGGCTTCCGTGGGCACCATCTATGTCTTCTTCCATGAGCGGTACAAGCTTGTGGAGCTTCTCT  
 GCTACGTCGTAATGGGCTTCTTCCCGCCTGGTCATCCTCTCCATGGCGGGGAAACTGAGGCGCTGGCAT  
 GACTTGTCTAAAGAGGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233403 representing NM\_001270375  
 Red=Cloning site Green=Tags(s)

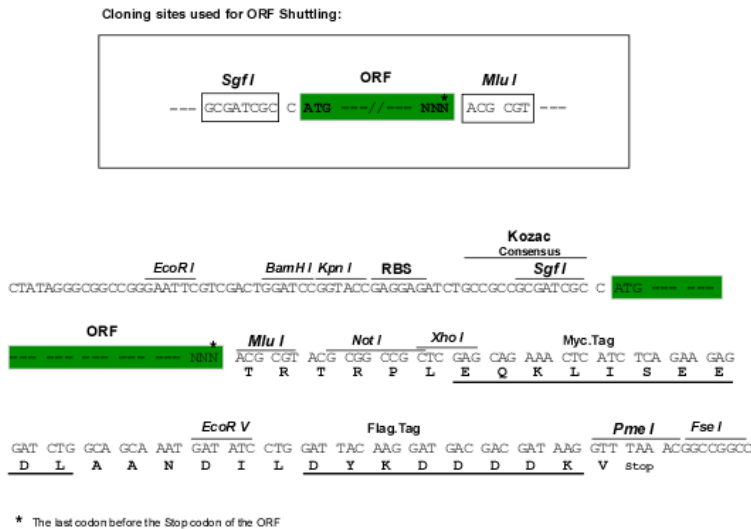
MFAPRLLDQKTKYARFMNHRVPAHKRYQPTHEYHAANCATHAFWIIPSILGSSNLYFLSDDDWETISAW  
 IYGLGLCGLFVSTVFHTISWKKSHLRMVEHCLHMFDRMVIYFFIAASYAPWLNLRRELGPWASHMRWLWV  
 IMASVGTIYVFFHERRYKLVLLCYVVMGFFPALVILSMAGKLRPGMTCLKRQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001270375

ORF Size: 579 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\\_001270375.2](#)

RefSeq Size: 2412 bp

RefSeq ORF: 582 bp

Locus ID: 221938

UniProt ID: [Q8IY49](#)

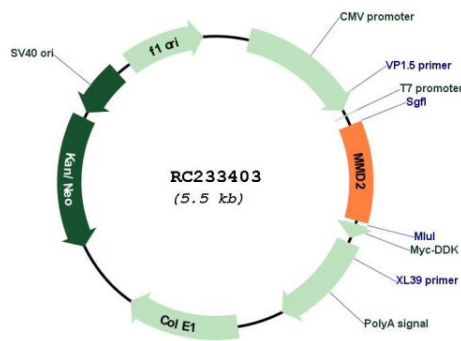
**Cytogenetics:** 7p22.1

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 23.2 kDa

**Gene Summary:** This gene encodes a member of the PAQR (progesterin and adipoQ receptor) family. Members of this family are evolutionarily conserved with significant sequence identity to bacterial hemolysin-like proteins and are defined by a set of seven transmembrane domains. The protein encoded by this gene localizes to the Golgi apparatus to modulate Ras signaling. Alternative splicing results in multiple transcript variants and protein isoforms. [provided by RefSeq, Jun 2012]

**Product images:**



Circular map for RC233403