

Product datasheet for **RG216026**

MMD2 (NM_001100600) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MMD2 (NM_001100600) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MMD2
Synonyms: PAQR10
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216026 representing NM_001100600
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCCCCGGCTGCTGGATTTCCAGAAGACGAAATACGCGAGGTTTCATGAACCACCGAGTCCCTG
CCCACAAGAGGTACCAGCCACAGAGTATGAACATGCGGCCAACTGTGCCACCCATGCTTCTGGATCAT
CCCCAGCATCCTGGGCAGCTCCAACCTCTACTTCTGTCGGACGATGACTGGGAGACCATCTCTGCCTGG
ATCTACGGCCTCGGCCTCTCGGCCTCTTCGTGGTGTCCACTGTGTTTCACACCATCTCCTGGAAGAAGA
GCCACCTCAGGATGGTGAACACTGTCTACACATGTTTCGACCGGATGGTCATCTATTCTTCATAGCGGC
TTCTACGCACCCCTGGCTGAACCTTCGGGAGCTGGGCCCTGGGCCTCCCACATGCGCTGGCTGGTCTGG
ATTATGGCTTCCGTGGGCACCATCTATGTCTTCTTCCATGAGCGAACAGGGAGCTGTGTGCAGTTTC
TTCGTGGGAGGCATGTCTAAGGCCGGCACGGCTTGTCTTCTGCCAGGTACAAGCTTGTGGAGCTTCT
CTGCTACGTCGTAATGGGCTTCTCCCCGCCCTGGTCATCCTCTCCATGCCAACACCGAGGGCATCTGG
GAGCTGGTGACCGGAGGGGTCTTCTACTGCCTGGGCATGGTCTTCTTCAAGAGTGACGGGAGGATCCCT
TTGCCACGCCATCTGGCATCTTTGTAGCATTTGGTGTGGTACCCACTACTATGCCATCTGGAGGTA
CCTCTATCTGCCAGCACCTGCAGACCAAGGTGTCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216026 representing NM_001100600
 Red=Cloning site Green=Tags(s)

MFAPRLDFQKTKYARFMNHRVPAHKRYQPTEYEHAANCATHAFWIIPSILGSSNLYFLSDDDWETISAW
 IYGLGLCGLFVVSTVFHTISWKKSHLRMVEHCLHMFDRMVIYFFIAASYAPWLNLRGPWASHMRWLWV
 IMASVGTIYVFFFHERTGSCVQFLRGEACPKAGTACLPARYKVELLCYVVMGFFPALVILSMPNTEGIW
 ELVTGGVFYCLGMVFFKSDGRIPFAHAIWHLFVAFGAGTHYYAIWRYLYLPSTLQTKVSK

TRTRPLE - GFP Tag - V

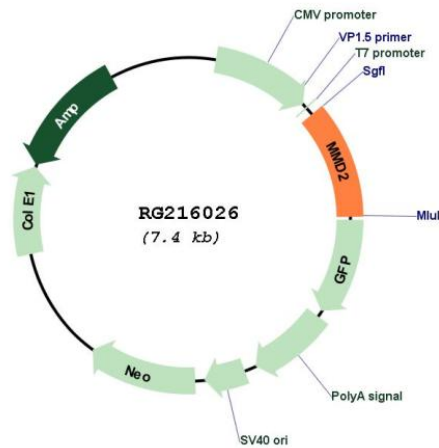
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001100600

ORF Size: 810 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:	<ol style="list-style-type: none">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_001100600.2
RefSeq Size:	2434 bp
RefSeq ORF:	813 bp
Locus ID:	221938
UniProt ID:	Q8IY49
Cytogenetics:	7p22.1
Protein Families:	Druggable Genome, Transmembrane
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]