

Product datasheet for **RG209898**

MMD2 (NM_198403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMD2 (NM_198403) 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:	>RG209898 representing NM_198403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCCCCGGCTGCTGGATTTCCAGAAGACGAAATACGCGAGGTTTCATGAACCACCGAGTCCCTG
CCCACAAGAGGTACCAGCCACAGAGTATGAACATGCGGCCAACTGTGCCACCCATGCTTCTGGATCAT
CCCCAGCATCCTGGGCAGCTCCAACCTCTACTTCTGTCGGACGATGACTGGGAGACCATCTCTGCCTGG
ATCTACGGCCTCGGCCTCTCGGCCTCTTCGTGGTGTCCACTGTGTTTCACACCATCTCCTGGAAGAAGA
GCCACCTAAGGATGGTGAACACTGTATACACATGTTTCGACCGGATGGTCATCTATTTCTTCATAGCGGC
TTCTACGCACCCCTGGCTGAACCTTCGGGAGCTGGGCCCTGGGCCTCCCACATGCGCTGGCTGGTCTGG
ATTATGGCTTCCGTGGGCACCATCTATGTCTTCTTCCATGAGCGGTACAAGCTTGTGGAGCTTCTCT
GCTACGTCGTAATGGGCTTCTTCCCCGCCCTGGTCATCCTCTCCATGCCCAACACCGAGGGCATCTGGGA
GCTGGTGACCGGAGGGTCTTCTACTGCCTGGGCATGGTCTTCTCAAGAGTGACGGGAGGATCCCCTTT
GCCACGCAATCTGGCATCTCTTTGTAGCATTTGGTGCTGGTACCCACTACTATGCCATCTGGAGGTACC
TCTATCTGCCAGCACCCCTGCAGACCAAGGTGTCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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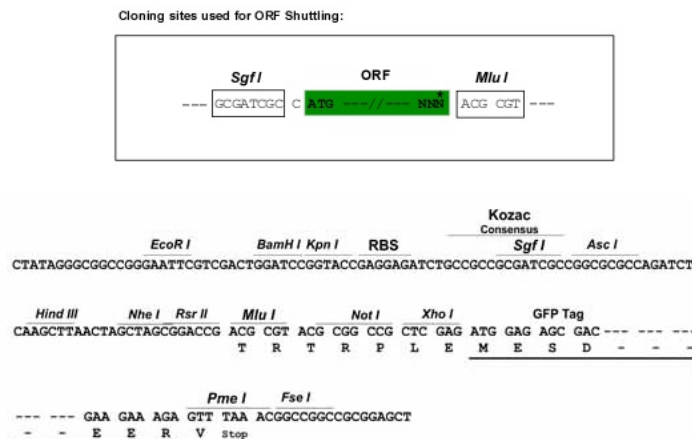
Protein Sequence: >RG209898 representing NM_198403
Red=Cloning site Green=Tags(s)

MFAPRLLDQKTKYARFMNHRVPAHKRYQPTEYEHAANCATHAFWIIPSILGSSNLYFLSDDDWETISAW
 IYGLGLCGLFVVSTVFHTISWKKSHLRMVEHCIMFDRMVIYFFIAASYAPWLNLRGPWASHMRWLWV
 IMASVGTIYVFFHERRYKLVLLCYVVMGFFPALVILSMPNTEGIWELVTGGVFYCLGMVFFKSDGRIPF
 AHAIWHLFVAFGAGTHYYAIWRYLYLPSTLQTKVSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198403

ORF Size: 738 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_198403.2](#), [NP_940685.2](#)

RefSeq Size: 2350 bp

RefSeq ORF: 741 bp

Locus ID: 221938

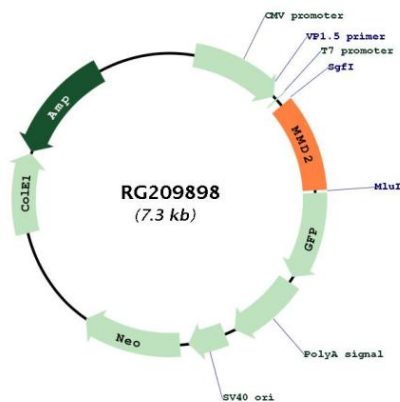
UniProt ID: [Q8IY49](#)

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]

Product images:



Circular map for RG209898