

Product datasheet for **RC209898**

MMD2 (NM_198403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMD2 (NM_198403) 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:	>RC209898 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCCCCCGGCTGCTGGATTTCCAGAAGACGAAATACGCGAGGTTTCATGAACCACCGAGTCCCTG
CCCACAAGAGGTACCAGCCACAGAGTATGAACATGCGGCCAACTGTGCCACCATGCTTTCTGGATCAT
CCCCAGCATCCTGGGCAGCTCCAACCTCTACTTCTGTCGGACGATGACTGGGAGACCATCTCTGCCTGG
ATCTACGGCCTCGGCCTCTGCGGCCTCTCGTGGTGTCCACTGTGTTTCACACCATCTCCTGGAAGAAGA
GCCACCTAAGGATGGTGAACACTGTATACACATGTTGACCGGATGGTCATCTATTTCTTCATAGCGGC
TTCTACGCACCCCTGGCTGAACCTTCGGGAGCTGGGCCCTGGGCCTCCACATGCGCTGGCTGGTCTGG
ATTATGGCTTCCGTGGGCACCATCTATGTCTTCTTCTTCATGAGCGGTACAAGCTTGTGGAGCTTCTCT
GCTACGTGTAATGGGCTTCTTCCCGCCCTGGTCATCCTCTCCATGCCCAACACCGAGGGCATCTGGGA
GCTGGTGACCGGAGGGGTCTTCTACTGCCTGGGCATGGTCTTCTCAAGAGTGACGGGAGGATCCCTTT
GCCCACGCAATCTGGCATCTCTTTGTAGCATTTGGTGCTGGTACCCACTACTATGCCATCTGGAGGTACC
TCTATCTGCCAGCACCTGCAGACCAAGGTGTCCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209898 protein sequence
 Red=Cloning site Green=Tags(s)

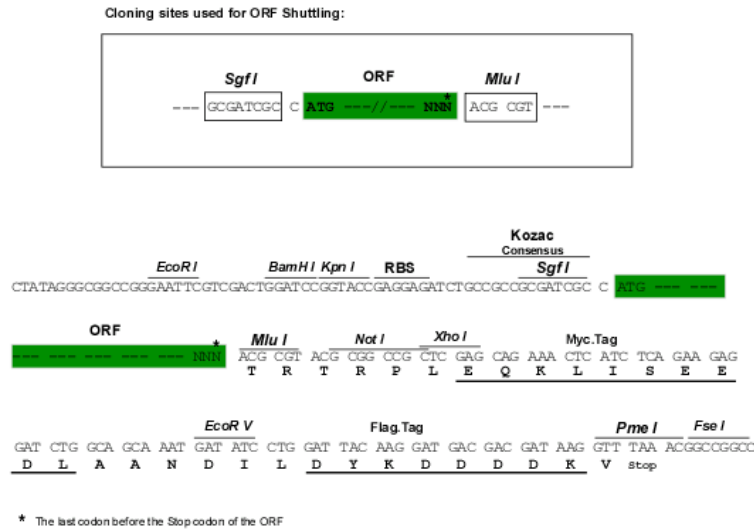
MFAPRLDFQKTKYARFMNHRVPAHKRYQPTHEYHAANCATHAFWIIPSILGSSNLYFLSDDDWETISAW
 IYGLGLCGLFVVSTVFHTISWKKSHLRMVEHCIHMFDRMVIYFFIAASYAPWLNRLGPWASHMRWLWV
 IMASVGTIYVFFHERRYKLVELLCYVVMGFFPALVILSMPNTEGIWELVTGGVFYCLGMVFFKSDGRIPF
 AHAIWHLFVAFGAGTHYYAIWRYLYLPSTLQTKVSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6359_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198403

ORF Size: 738 bp

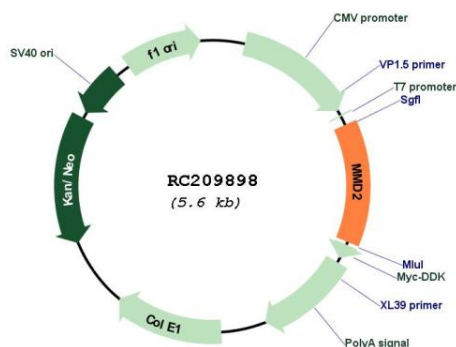
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

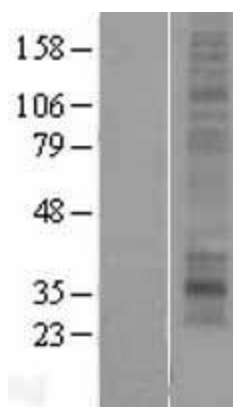
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_198403.2, NP_940685.2</u>
RefSeq Size:	2362 bp
RefSeq ORF:	741 bp
Locus ID:	221938
UniProt ID:	<u>Q8IY49</u>
Cytogenetics:	7p22.1
Protein Families:	Druggable Genome, Transmembrane
MW:	28.8 kDa
Gene Summary:	This gene encodes a member of the PAQR (progesterone 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 RC209898



Western blot validation of overexpression lysate (Cat# [LY405054]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209898 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).