

Product datasheet for **RG214077**

MTMR12 (NM_001040446) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MTMR12
Synonyms:	3-PAP; PIP3AP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG214077 representing NM_001040446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGGGAAAGGAGTAGTCGGCGGTGGCGCGGCACCAAGGCCCAAGCCCTCCTTCGTGTCGTACG
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 AGGTGAACAGCTGCTTTGTGAAGCCAGCAGTACTGAAGTATGTCAGGAAGATTCTGTGACGATGGG
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 GATCGACGAGAGACACCACAGCCAGCAGCCCCCAGGCTGAGGCCCCCTGCCTGCTGAGGAACCTGCCC
 CGCCTCTCGTCTTTGTTTCTTTCTGCTCTGCTCCAGCGACATTCTCTAAGCCCGTCTTACCACCAAGT
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 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

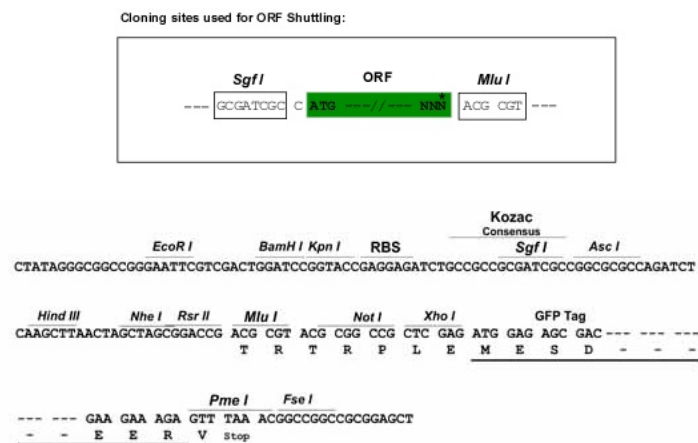
Protein Sequence: >RG214077 representing NM_001040446
Red=Cloning site Green=Tags(s)

MLGKGVVGGGGTKAPKPSFVSYVRPEEIHTEKEVTEKEVTLHLLPGEQLLCEASTVLKYVQEDSCQHG
VYGRVCTDFKIAFLGDDESALDNDDETQFKNKVI GENDITLHCVDQIYGVFDEKKTLFGQLKKYPEKLI
IHCKDLRVFQFCLRYTKEEEVKRIVSGIIHHTQAPKLLKRLFLFSYATAQNNTVTDPNHTVMFDTLKD
WCWELERTKGNMKYKAVSVNEGKVCERLPAYFVVPTPLPEENVQRFQGHGPIWCWSCHNGSALLKMSA
LPKEQDDGILQIQKSFLDGIYKTIHRPPYEIVKTEDLSSNFLSLQEIQTAYSFKQLFLIDNSTEFWDTD
IKWFSLLESSSWLDIIRCLKKAIEITECMEAQNMNVLLEENASDLCCLISSLVQLMMDPHCRTRIGFQ
SLIQKEWVMGGHCFLDRCNHLRQNDKEEVPVLLFLDCVWQLVHQHPPAFETTYLTVLSDSLYIPIFS
TFFFNSPHQDNTMREGQDTQSKPLNLLTVWDWSVQFEPKAQTLLKNPLYVEKPKLDKGQRKGMRFKHQ
RQLSLPLTQSKSSPKRGFFREETDHLIKNLLGKRI SKLINSSDELQDNFREYDSWHSKSTDYHGLLLPH
IEGPEIKVWAQRYLRWIPEAQILGGQVATLSKLEMMEEVQSLQEIKIDERHHSQQAPQAEAPCLLRNSA
RLSSLFPFALLQRHSSKPVLTSGWKALGDEDDLAKREDEFVDLGDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040446

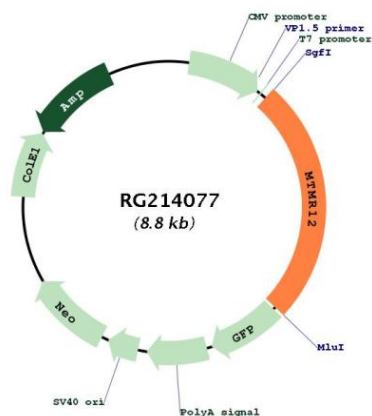
ORF Size: 2241 bp

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_001040446.3
RefSeq Size:	5187 bp
RefSeq ORF:	2244 bp
Locus ID:	54545
UniProt ID:	Q9C0I1
Cytogenetics:	5p13.3
Protein Families:	Druggable Genome
Gene Summary:	Phosphatidylinositide 3-kinase-derived membrane-anchored phosphatidylinositides, such as phosphatidylinositol 3-phosphate (PtdIns(3)P), regulate diverse cellular processes. The protein encoded by this gene functions as an adaptor subunit in a complex with an active PtdIns(3)P 3-phosphatase. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RG214077