

## Product datasheet for **RG220061**

### MTMR3 (NM\_153051) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR3 (NM_153051) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTMR3
Synonyms:	FYVE-DSP1; ZFYVE10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220061 representing NM_153051 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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CCTTGCTCTTTGAGTTCAATGAAGCATTCCCTGTGAAACTGGTGCAGCATACCTATTCCTGCCTGTTTG  
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CAAGCTCCAGCATTGACCTTGAAGTGGATAAGCCATTGCTGCCACTTCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG220061 representing NM\_153051  
Red=Cloning site Green=Tags(s)

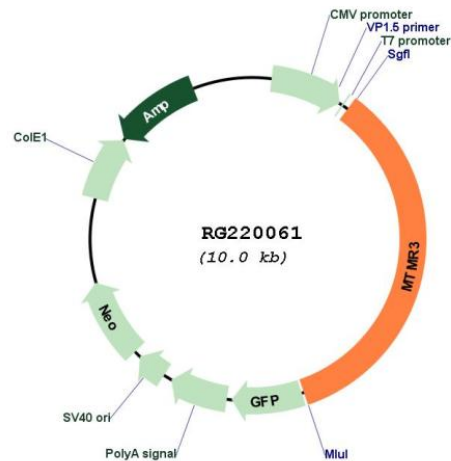
```
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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI  
**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_153051

ORF Size: 3483 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\\_153051.3](#)

RefSeq Size: 8897 bp

RefSeq ORF: 3486 bp

Locus ID: 8897

UniProt ID: [Q13615](#)

Cytogenetics: 22q12.2

<b>Domains:</b>	FYVE, PTPc_motif
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Gene Summary:</b>	<p>This gene encodes a member of the myotubularin dual specificity protein phosphatase gene family. The encoded protein is structurally similar to myotubularin but in addition contains a FYVE domain and an N-terminal PH-GRAM domain. The protein can self-associate and also form heteromers with another myotubularin related protein. The protein binds to phosphoinositide lipids through the PH-GRAM domain, and can hydrolyze phosphatidylinositol(3)-phosphate and phosphatidylinositol(3,5)-biphosphate in vitro. The encoded protein has been observed to have a perinuclear, possibly membrane-bound, distribution in cells, but it has also been found free in the cytoplasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>