

## Product datasheet for **RG212024**

### MTMR1 (NM\_003828) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR1 (NM_003828) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTMR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG212024 representing NM\_003828  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGACAGGCCGGCGGCCGGCGGGCTGCGAGGGCGGGGGCCGAACCCGGGGCCGGCGG  
GCGGCAGGAGGCTCCTCGGGCCGCGGGGGCGCCACCGCCGGCTCCCGCAGCCAGCGTGGAGACCT  
GGACAGTCCCACAGGATCACATGTTGAATGGTGTAAACAGCTTATAGCTGCTACAATTTCTAGTCAGATT  
TCAGGTTCAGTGACATCAGAAAATGTGTCCAGAGATTACAAGGCTCTAAGGGATGAAAATAAGCTGGCAC  
AGATGGAAGAGGCTCCACTTTCCAGGAGAATCAATTAAGCCATTGTGAAAGATGTCATGTATATCTG  
CCCATTATGGGAGCAGTGAGTGAACCCTGACAGTGACGGACTTAAAGCTGTACTTCAAAAATGTCGAG  
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GCCATGGAGACAATTCCTGTGGTATAGAGATAGTGTGCAAGGATATGAGGAACCTTGGCGCTTGTATAA  
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CAGGCACTATTTGCATTCAGCTATAAAGAAAAATTTCCAATTAATGGCTGGAAAATTTATGATCCAGTAT  
CTGAATATAAGAGACAGGGCTTGCCAAAATGAGAGTTGAAAATATCCAAAATAAACAGTAATTTATGAGTT  
CTGTGACACCTACCCTGCCATCATTGTTGTGCCAACTAGTGTAAAAGATGATGACCTTTCAAAAGTGGCA  
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GGCGCGGTGGCTCTCAATGTGGATGGGACGCATTGGCTGGAATATATAAGGATGCTGCTTGTGGGGCA  
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AACCATGCGGATGCTGACCGATCTCCATATTTCTGCAGTTTGTGATTGTGTTGGCAAATGACAAGGC  
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TTTTGGGACCTTTTTGTGCAACTGTGAACAGCAGCGATTCAAAGAGGATGTATATACAAAGACGATATCT  
TTATGGTGTATATCAATAGCCAGCTAGACGATTTTCTAATCCCTTCTTTGTGAATTATGAAAACCACG  
TGTATATCCTGTGCTAGTCTGAGTCATTTGGAATTGTGGGTAATTTATGTACGATGGAATCCACG  
GATGAGACCTCAGATGCCATTACCCAGAACTCAAGGAGCTGTGGCCGTCAGGGCGGAGCTGCAGAAG  
CGTGTGGAGGGCCTACAGCGGGAGGTGGCCACGCGCGCTCTCATCCTCATCTGAGCGGGGCTCCTCGC  
CTCCCACTCCGCCACCTCCGTCCACACCTCGGTC

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG212024 representing NM\_003828  
 Red=Cloning site Green=Tags(s)

```
MDRPAAAAAGCEGGGPNPGPAGRRPPRAAGGATAGSRQPSVETLDSPTGSHVEWCKQLIAATISSQI
SGSVTSENVSRDYKALRDGNKLAQMEEAPLFPGESIKAIVKDVMYICPFMGAVSGTLTVTDFKLYFKNVE
RDPHFILDVPLGVISRVEKIGAQSHGDNSCGIEIVCKDMRNLRLAYKQEEQSKLGIFENLNKHAFPLSNG
QALFAFSYKEKFPINGWKVYDPVSEYKRQGLPNESWKISKINSNYEFCDTYPAIIVVPTS VKDDDL SKVA
AFRAKGRVPVLSWIHPESQATITRCSQPLVGPNDKRCKEDEKYLQTIMDANAQSHKLIIFDARQNSVADT
NKTGGGYESESAYPNAELVFLEIHNIHVMRESLRKLKEIVYPSIDEARWL SNVDGTHWLEYIRMLLAGA
VRIADKIESGKTSVVVHCSGDWDRTAQLTSLAMLMLDSYRTIKGFETLVEKEWISFGHRFALRVGHGND
NHADADRSPIFLQFVDCVQMTRQFPSAFEFNELFLITILDHLYSCLFGTFLCNCEQQRKEDVYTKTIS
LWSYINSQLDEFNPFVNYENHVL YPVASL SHLELWVNYVVRWNPRMRPQMPIHQNLKELLAVRAELQK
RVEGLQREVATRAVSSSSERGSPPSHSATSVHTSV
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

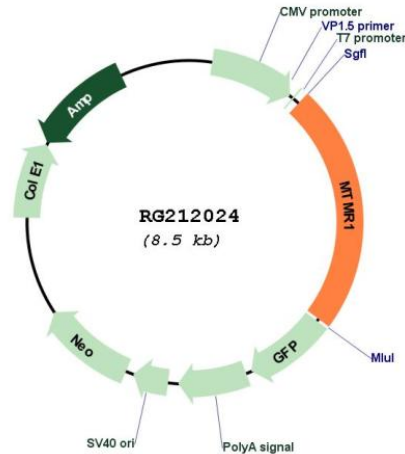
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_003828

ORF Size: 1995 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:	<a href="#">NM_003828.4</a>
RefSeq Size:	2754 bp
RefSeq ORF:	1998 bp
Locus ID:	8776
UniProt ID:	<a href="#">Q13613</a>
Cytogenetics:	Xq28
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism
Gene Summary:	This gene encodes a member of the myotubularin related family of proteins. Members of this family contain the consensus sequence for the active site of protein tyrosine phosphatases. Alternatively spliced variants have been described but their biological validity has not been determined. [provided by RefSeq, Jul 2008]