

Product datasheet for **RG201912**

MTMR8 (NM_017677) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR8 (NM_017677) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTMR8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG201912 representing NM_017677
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCATATTACGGTACCCAAGTAGAAAACGTGAAATTGGTGGATCGTTATGTGAGTAAGAAACCAG
CTAATGGGATTCTTTATCTTACTGCAACCCACCTGATCTATGTGGAGGCTTCAGGTGCAGCCCGAAAGA
AACATGGATTGCACTCCATCACATTGCCACTGTGGAGAAGTTACCCATCACTAGCCTGGGTTGTCCCTG
ACCCTCCGCTGCAAGAATTTCCGGGTGGCCACTTTGTTTTAGATTCTGACCTTGTGTGCCATGAGGTTT
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TGAAAAAGAAGACAACATGCCAACATTCGCTTCAGATTCATGGGCATTGAGAACATCCATGTAATGCGG
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CCTCCACCATAACTGTTGTGAGATTGTGGGCAGCCTTAGGGCCATAAATATCTCTGGGGATGTGGGCATC
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TCTGTGGGGCCATGGACATCTCTGAGGCCACTGGCATCTCTGAAAACCTTGGGATTTCTGAGGCCAGGGG
TTTCTCTGGGGACATGGGCATCTTGGGGACACAGGCATCTCCAAGGCCAGCACAAGGAGGCAGACTAC
TCCAAGCATCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201912 representing NM_017677
 Red=Cloning site Green=Tags(s)

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MDHITVPKVENVKLVDRYVSKKPANGILYLTATHLIYVEASGAARKETWIALHHIATVEKLPITSLGCP
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SSLQKLELVCELKPTMSEFLSGLLESSGWLRIKAIMDAGIFITKAVKVEKASVLVHCSDGWDRTAQVCS
VASILLDPFYRTFKGLMILIEKEWISMGHKFSQRCGHLDGDSKEVSPIFTQFLDCIWQLMEQFPCAFEFN
ENFLEIHDHVFSCQFGNFGNCQKDREDLRVYEKTHSVWPFLVQRKPDFRNPLYKGFMYGLNPSTVP
YNIQFWCQMYNRFDKGLQPKQSMLESLEIKKQRAMLETDVHELEKLLKVRDEPPEEICTCSQLGNILSQ
HLGSPLTNPLGFMGINGDLNTLMENGLSREGGLRAQMDQVKSQGADLHHCCEIVGSLRAINISGDVGI
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SKHQ
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TRTRPLE - GFP Tag - V

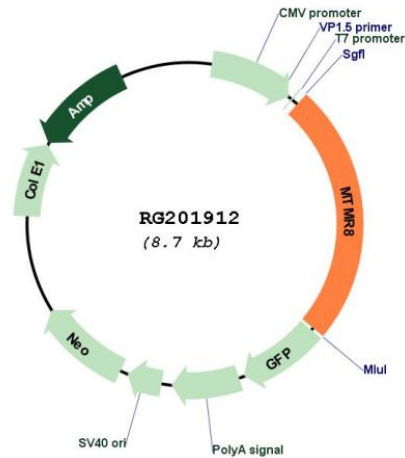
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_017677

ORF Size: 2112 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_017677.4](#)

RefSeq Size: 2653 bp

RefSeq ORF: 2115 bp

Locus ID: 55613

UniProt ID: [Q96EF0](#)

Cytogenetics: Xq11.2

Domains: PTPc_motif

Protein Families: Druggable Genome, Phosphatase

Gene Summary: This gene encodes a member of the myotubularin-related family and is part of the MTMR6 subgroup. Family members are dual-specificity phosphatases and the encoded protein contains a phosphoinositide-binding domain (PID) and a SET-interacting domain (SID). Defects in other family members have been found in myotubular myopathic diseases. [provided by RefSeq, Mar 2010]