

Product datasheet for **RG222373**

MTMR7 (NM_004686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR7 (NM_004686) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTMR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG222373 representing NM_004686
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCACATCCGCACGCCAAGTTGAAAATGTCCGCTTGGTAGATCGAGTGTCTCCTAAAAAGCAG
CTCTAGGTAAGTATTTGATTTGACGGCTACCCATGTCATATTCGTGGAAAATTCACCTGACGCAAGAAAAGA
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GCTGGATAAAGAAGAAAGAGAGCAAGGCTGGGTGCTGATCGATCTTAGTGAAGAATACACGCGGATGGGC
CTCCCTAATCATTACTGGCAGCTCAGCGATGTGAATAGAGACTATAGAGTCTGTGACTCTTATCCTACTG
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GGCTTCAGTGCCCGGTGCTTAGAGGACGAGCAGATGCTCCAGGCCATTAGGAAAGCCAATCCAGGAAGTG
ACTTCGTTTATGTCGTTGACACCCGGCCTAAACTTAATGCAATGGCAAATCGTGCTGCAGGAAAAGGCTA
TGAGAATGAAGACAATTATTCGAATATCAAGTTTTCAGTTTATCGGGATAGAGAACATCCATGTCATGAGG
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ACACCATGTAACCTCATGTACAAGTTTTGGAGTGGAAATGTATAACCGCTTTGAAAAGGGGATGCAGCCCC
GACAGTCAGTTACAGATTACCTAATGGCAGTGAAGGAAGAACTCAGCAGCTAGAGGAAGAACTAGAGGC
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AGACAATCTGAAAAGTTCAGATCCAGATCTGTCAGCCAACAGTGACCAAGAGTCCGGGGTGGAGGATTTG
AGCTGTGGTCTCCAAGTGGTGGTGAAGATAGTGGCAAGGACCGGGATTCTGATG
AAGCCGTGTTTCTCACTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222373 representing NM_004686
Red=Cloning site Green=Tags(s)

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MEHIRTPKVENVRLVDRVSPKKAALGTL YLTATHVIFVENSPDARKETWILHSQISTIEKQATTATGCPL
LIRCKNFQIIQLIIPQERDCHDVYISLIRLARPVKYEEL YCF SFNPMLDKEEREQGWVLDLSEEYTRMG
LPNHYWQLSDVNRDYRVCD SYPTELYVPKSATAHIIVGSSKFRSRRRFPVL SYYYKDNHASICRSSQPLS
GFSARCLEDEQMLQAIRKANPGSDFVYVVDTRPKLNAMANRAAGKGYENEDNYSNIKFQFIGIENIHVMR
NSLQKMLEVCELKSPMSDFLWGLENSGWL RHKAIMDAGFIAKAVSEEGASVLVHCSDGWDRTAQVCS
VASLLLDPHYRTLKGFMLIEKDWISFGHKFNHRYGNLDGDPKEI SPVIDQFIECVWQLMEQFPCAFEFN
ERFLIHIQHIIYSCQFGNFLCNSQKERRELKIQERTYSLWAHLWKNRADYLNPLFRADHSQTQGTLLHPT
TPCNFMYKFWSGMYNRFKGMQPRQSVTDYLMAYKEETQQL EEELEALEERLEKIQKVQLNCTKVKSQKS
EPSKHSGFSTSDNSIANTPDYSGNMKSFSPSRSPSQGDEDSALIL TQDNLKSSDPDL SANSQESGVEDL
SCRSPSGGEHAPSEDSGKDRDSDEAVFLTA
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004686

ORF Size: 1980 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_004686.2](#), [NP_004677.2](#)

RefSeq Size: 3884 bp

RefSeq ORF: 1983 bp

Locus ID: 9108

UniProt ID: [Q9Y216](#)

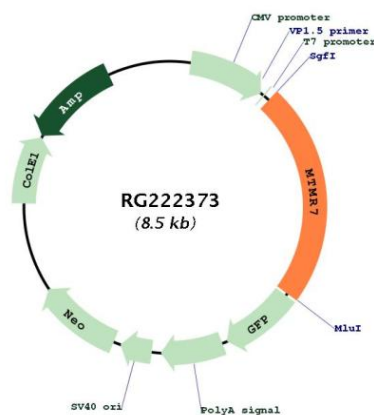
Cytogenetics: 8p22

Protein Families: Phosphatase

Protein Pathways: Fructose and mannose metabolism, Metabolic pathways, Riboflavin metabolism, Thiamine metabolism

Gene Summary: This gene encodes a member of the myotubularin family of tyrosine/dual-specificity phosphatases. The encoded protein is characterized by four distinct domains that are conserved among all members of the myotubularin family: the glucosyltransferase, Rab-like GTPase activator and myotubularins domain, the Rac-induced recruitment domain, the protein tyrosine phosphatases and dual-specificity phosphatases domain and the suppressor of variegation 3-9, enhancer-of-zeste, and trithorax interaction domain. This protein dephosphorylates the target substrates phosphatidylinositol 3-phosphate and inositol 1,3-bisphosphate. A pseudogene of this gene is found on chromosome 5. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG222373

