

Product datasheet for **RG200809**

MTMR14 (NM_022485) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTMR14 (NM_022485) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTMR14
Synonyms:	C3orf29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG200809 representing NM_022485
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGGCGCTCGGGCCGCCGCCCGCTGCCTCGGCGGGTCTCGGCCTCTTCAGGCAACCAGCCGC
 CTCAGGAGCTGGGGCTTGGGGAGCTGCTGGAGGAGTTCTCCCGGACTCAGTACCGGGCCAAGGATGGCAG
 CGGGACCGCGGCTCTAAGGTTGAGCGCATTGAGAAGAGATGTCTGGAGCTGTTTGGCCGAGACTACTGT
 TTCAGCGTGATTCCAAACACGAATGGGGATATCTGTGGCCACTATCCCGGCACATCGTGTCTCGGAGT
 ATGAGAGTTCTGAGAAGGAGAAAGACACGTTTGTAGAGTACCGTACAGGTGAGCAAGTTGCAAGACCTCAT
 CCACCGCAGCAAGATGGCCCGTGCAGAGGACGGTTTGTCTGCCAGTAATCCTGTTCAAGGGCAAGCAC
 ATTTGCAGGTGGCCCACTGGCTGGATGGGGAGAGCTGTATGGACGCTCAGGCTACAATATTTTTTCT
 CAGGGGTGCAGATGATGCTGGCAGATGTGGAGGACGTCACGGAGGAGGACTGTGCTCTTCAAGTGG
 TGACACGCATCTTTTGTAAAGTCAAGGCTATGACATCAAGCTGCTTCGATACCTGTCAAGTCAAAATAC
 ATCTGTGACCTGATGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACTCCTCTGAGAAGTGG
 ACAAAGCCAGCGCTATGCCGACTTCACTCTCCTCTCCATCCCGTATCCAGGCTGTGAATTTTTCAAGGA
 ATATAAGATCGGGATTACATGGCAGAAGGGCTCATATTTAACTGGAAGCAGGACTACGTTGATGCCCA
 TTGAGCATCCCGACTTCTGACTCACTCTCTGAACATTGACTGGAGCCAGTATCAGTGTGGGACTG
 TGCAACAAACACAAAACCTGAAGCTGCTGCTTTCCTTAGTTAACAGTGTATGACAGCGGGCTGCT
 GGTACTGTATCTCAGGCTGGGATCGGACCCCTCTCATCTCCCTCTGCGCCTTTCCTTGTGGGCT
 GATGGGCTCATCCACACGTCCTGAAGCCCACTGAGATCCTCTACCTCACTGTGGCCTATGACTGGTTCC
 TCTTCGGGCACATGTTGGTAGATCGGCTCAGCAAAGGGGAGGAGATTTTCTTCTTCTGCTCAATTTTT
 GAAGCATATTACCTCCGAGGAGTTCTCTGCTCTGAAGACCAGAGGAGGAAGAGTTTCCAGCCCGGGAT
 GGAGGCTTACCCTGGAAGACATCTGCATGCTGAGACGAAAGGACCGTGGCAGCACCACCAGCCTTGGCA
 GCGACTTCTCCCTGGTATGGAGAGTTCCCGAGGACCACTGGGAGCTTACCTATGAGGCCGTGGAGCT
 GGTCCCAGCAGGAGCGCAACTCAGGCAGCTTGGCTTGCAGCCCTGAGTGTGAGAGACTCGGCTGCAG
 GAGGTGCGCTCAGCCTTCTTGGCTGCGTACAGCAGCACAGTGGGGCTTCGGGCAGTAGCCCCAGTCCTT
 CCGGTGCCATCGGGGCCTGCTGGAGCAATTTGCCCGTGGTGTGGACTCCGGAGCATCAGCAGCAATGC
 CTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200809 representing NM_022485
 Red=Cloning site Green=Tags(s)

MAGARAAAAASAGSSASSGNQPPQELGLGELLEEF SRTQYRAKDGSGTGGSKVERIEKRCLLELFRDYC
 FSVIPNTNGDICGHYPRHIVFLEYESSEKEKDTFESTVQVSKLQDLIHRSMARCRGRFVCPVILFKGKH
 ICRSATLAGWELYGRSGYNYFFSGGADDAWADVTEEDCALRSGDTHLFDKVRGYDIKLLRYLSVKY
 ICDLMVENKKVKFGMNVTSSEKVDKAQRYADFTLLSIPYPGCEFFKEYKDRDYMAEGLIFNWKQDYVDAP
 LSIPDFLTHSLNIDWSQYQCWDLVQQTQNYLKLKLLSLVNSDDDSGLLVHCISGWDRTPFLISLLRLSLWA
 DGLIHTSLKPTIILYLTVAYDWFLFGHMLVDRLSKGEEIFFFCFNFLKHITSEEF SALKTQRRKSLPARD
 GGFTLEDICMLRRKDRGTTSLGSDFSLVMESSPGATGSFTYEAVELVPAGAPTQAAWLAALSDRETRLQ
 EVRSAFLAAYSSTVGLRAVAPSPSGAIGLLEQFARGVGLRSISSNAL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_022485

ORF Size: 1614 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_022485.5](#)

RefSeq Size: 2225 bp

RefSeq ORF: 1617 bp

Locus ID: 64419

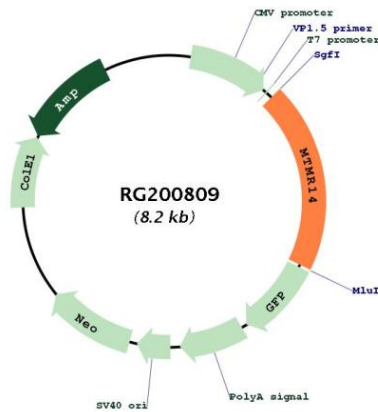
UniProt ID: [Q8NCE2](#)

Cytogenetics: 3p25.3

Protein Families: Druggable Genome, Phosphatase, Secreted Protein

Gene Summary: This gene encodes a myotubularin-related protein. The encoded protein is a phosphoinositide phosphatase that specifically dephosphorylates phosphatidylinositol 3,5-biphosphate and phosphatidylinositol 3-phosphate. Mutations in this gene are correlated with autosomal dominant centronuclear myopathy. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 18.[provided by RefSeq, Apr 2010]

Product images:



Circular map for RG200809