

Product datasheet for **MR215223**

Mtmr2 (NM_023858) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr2 (NM_023858) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtmr2
Synonyms:	6030445P13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215223 representing NM_023858
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAGACTCCAGCTGCGAGAGTCTCGGCGCGCAGCTCCCGCGGCAAGGCTGCCAGCGAGGACT
 CACTGTCCAGTGCTTCTACTTCTCATTTCAGAGAACTCGGTGCATACCAAATCAGCTTCTGCTATATCATC
 AGATTCCATTTCAACCTCTGCAGACAACCTTTCTCCTGACTTGAGGGTCTCTGAGGGAGGCAACAAGTTA
 GCAGAAATGGAGGAACCGCCCTGCTTCCAGGAGAGAACATTAAGATATGGCCAAAGATGTGACTTACA
 TATGTCCATTCAGTGGTCTGTGCGAGGAACGCTGACTGTCAAGTTACAGTTATATTCAAGAGCAT
 GGAGCGGGACCCCATTTGTTCTAGATGCTTCTCTGGAGTGATAAGTAGAGTAGAAAAAATTGGTGGT
 GCATCTAGCCGAGGTGAAAACCTATGGCCTGGAACTGTGTGCAAGGATATCAGGAACCTGCGATTTG
 CTCATAAACCGGAGGGGGAACAAGAAGATCCATATTTGAGAATCTAATGAAATATGCATTTCTGTGTC
 TAATGGCTTGCCCTTTTTGCTTTTGAGTATAAAGAAGTATCCCGAAAATGGGTGAAAACCTGTATGAC
 CCCCTTCTAGAGTACAGAAGGCAGGGAATTCCAAATGAAAGCTGGAGAATAACAAAGATAAATGAACGCT
 ATGAACTCTGTGACACATATCCTGCCCTCTGGTTGTGCCAGCAAACATTCCTGATGAGGAGCTAAAGAG
 AGTGGCATCCTTAGGTACGGGGCCGGATCCCAGTTTTATCCTGGATTCATCCTGAAAGTCAAGCCACA
 GTCACCTCGCTGCAGCCAGCCATGGTTGGAGTGAGTGGGAAGCGCAGCAAAGAAGATGAGAAGTACCTTC
 AGGCCATCATGGACTCCAATGCCAGTCTCACAAAATATTTATCTTTGATGCTCGGCCAAGTGTCAATGC
 GGTTGCCAATAAGGCAAAGGGGGAGGTTATGAAAGTGAAGATGCCTATCAAAATGCAGAACTCGTTTTT
 CTGGATATTCATAATATCCATGTTATGAGAGAATCATTACGGAAGCTTAAGGAGATTGTGACCCCA
 TTGAAGAACTCACTGGTTGTCTAACTTAGAATCTACACACTGGCTGGAACACATTAAGTCACTTTGTC
 AGGGGCTCTTAGGATTGCTGACAAGGTGAGTCTGGGAAGACGCTGTGGTGGTACACTGCAGTGATGGA
 TGGGATCGCACAGCTCAGCTCACTTCCCTGGCCATGCTCATGTTGGATGGATACTACCGAACCATACGAG
 GATTTGAAGTCTTGTGGAGAAAGAATGGCTGAGCTTTGGACATAGATTCCTCAACTAAGAGTTGGCCATGG
 AGATAAGAACCATGCTGACGCAGACAGGTACCTGTTTTCTCAGTTTATTGACTGTGTCTGGCAAATG
 ACAAGACAGTTCCCTACCGCATTTGAATCAATGAGTATTTCTCATTACCATCCTGGACCACTTGTACA
 GCTGTTTATTTGGAACATTCCTTTGTAACAGCGAACAGCAGAGGGGAAAGAGAATCTTCTAAGAAGAC
 AGTGTCACTGTGGTCTATATAACAGCCAGCTGGAAGACTTTACTAATCCTCTTTATGGAAGCTACTCC
 AATCATGTCCTTTACCCAGTAGCCAGCATGCGCCACCTAGAGCTCTGGTGGGATATTATATAAGGTGGA
 ACCCCCGGATGAAACCTCAGGAACCTATCCACAGCAGATACAAAGAACTTCTTGCCAAAAGAGCAGAGCT
 TCAAAGAAAAGTAGAGGAACTTCAGAGAGAAAATTTCAAACCGCTCAACCTCCTCTTCAGAGAGAGCCAGC
 TCTCTGCACAGTGTGTGACTCCTGTCCAACTGTTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215223 representing NM_023858
 Red=Cloning site Green=Tags(s)

MEKSSSCESLGAQLPAARLPESDLSASTSHSENSVHTKSASAISSDSISTSADNFSPDLRVLREANKL
 AEEMEPALLPGENIKDMAKDVTYICPFTGAVRGTLTVTSYRLYFKSMERDPPFVLDASLGVISRVEKIGG
 ASSRGENSYGLETVCKDINLRF AHKPEGRTRRSIFENLMKYAFPVSNGLPLFAFEYKEVFPENGWKLYD
 PLLEYRRQGIPNESWRITKINERYELCDTYPALLVVPANIPDEELKRVASFRRGRIPVLSWIHPESQAT
 VTRCSQPMVGVSGKRKSEDEKYLQAIMDSNAQSHKIFIFDARPSVNAVANKAKGGGYESEDAYQNAELVF
 LDIHNIHVMRESLRKLEIVYPTIEETHWLSNLESTHWLEHIKILLAGALRIADKVESGKTSVVVHCSDG
 WDRTAQLTSLAMLMLDGYRTIRGFEVLVEKEWLSFGHRFQLRVGHGDKNHADADRSPVFLQFIDCVWQM
 TRQFPTAFEFNEYFLITILDHLYSCLFGTFLCNSEQQRGKENLPKKTVSLWSYINSQLEDFTNPLYGSYS
 NHVLYPVASMRHLELVWGYIRWNPMPKQEPHRSRYKELLAKRAELQRKVEELQREISNRSTSSSERAS
 SPAQCVTPVQTVV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9079_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

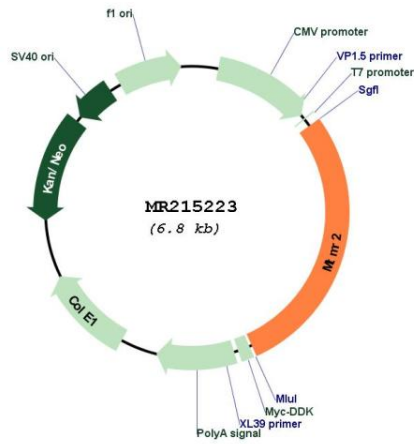


ACCN: NM_023858

ORF Size: 1929 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:	<ol style="list-style-type: none"> 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_023858.4
RefSeq Size:	3036 bp
RefSeq ORF:	1932 bp
Locus ID:	77116
UniProt ID:	Q9Z2D1
Cytogenetics:	9 A1
MW:	73.2 kDa
Gene Summary:	Phosphatase that acts on lipids with a phosphoinositol headgroup (PubMed:12045210, PubMed:16399794). Has phosphatase activity towards phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate (PubMed:12045210, PubMed:16399794). Binds phosphatidylinositol 4-phosphate, phosphatidylinositol 5-phosphate, phosphatidylinositol 3,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate (PubMed:12045210, PubMed:16399794). Stabilizes SBF2/MTMR13 at the membranes (PubMed:23297362). Specifically in peripheral nerves, stabilizes SBF2/MTMR13 protein (PubMed:23297362). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215223