

## Product datasheet for **MR208470**

### **Mtmr14 (NM\_026849) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Mtmr14 (NM_026849) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                   |
| Symbol:                   | Mtmr14                                    |
| Synonyms:                 | 1110061O04Rik; AW553738; C76151           |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-Entry (PS100001)                    |
| E. coli Selection:        | Kanamycin (25 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>MR208470 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAGGTGCAGAGGTCGGTTTGTCTGCCAGTGATCCTGTTCAAAGGCAAGCATATTTGCAGGTCGG  
 CCACACTGGCTGGATGGGAGAGCTATATGGACGCTCGGATACAACATTTTATTCTCAGGGGAGCAGA  
 TGATACCTGGGCAAGTACAGAAGATGTCACAGAAGAGGACTTTGTTCTTCGGAGTGGTGACACACACCTT  
 TTTGATAAGGTGAGAGGCTATGATATCAAGCTGCTTCAATACCTGTCAGTCAAGTACATCTGTGACCTGA  
 TGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACCTCCTCTGAGAAGGTGGACAAAGCCAGCG  
 CTATGCAAACCTCACTCTCTCTATTCCATATCCAGGTTGTGAATTCTTCAAGGAATATAAAGATCGG  
 GATTACATGGCTGAAGGGCTCATATTTAACTGGAAGCAGGACTACGTCGATGCCCATTTGAACATCCCCA  
 ACTTCTGACTCAATCTCTGAACATTGACTGGAGCCAGTATCAGAGTTGGGACCTGGTCAACAAACACA  
 GAACTACCTGAAACTGCTGCTTTTCATCATGAACAGAGATGATGACAGCGGGCTGCTGGTACACTGTATC  
 TCAGGCTGGGACCGGACCCCTTTCATCTCTTCTGCGCCTTTCCTGTGGGCTGATGGGCTAATTC  
 ACACATCCCTGAAGCCTGCTGAGATCCTACCTGACTGTGGCCTATGACTGGTTCCTTTTGGACACAT  
 GTTGGTAGATCGGCTCAGCAAAGGGGAGGAGATTTTCTTCTTTGCTTCAATTTTTTGAAGCATATCACC  
 TCCGAAGATTCTGCCTGAAGACCCAGAGGAGGAAGAGTTTGCCAACTCGGGATGCAGGCTTCACTGTGG  
 AAGATATCTGCATGTTGAGACACAAAGATCGAGGCAGCACAAACAGCCTAGGCAGCGACTTCTCCCTGGT  
 CTTGGAGCACTCACCGGAGCTGTGGGGAGCTTCAGCTATGAGACTGTGGAACCTGCCCGGCAGGAGCA  
 CCAACTCAGGCAGCTTGGAGGAAGAGTCACTCATCCTCCACAGAGTATGCTCTGGAGCCGGCCACAGC  
 CCTCTGAGGAGCGCTACCTTACACCATGGGCTCACTGAAGCCAAGTCTTCTAGCTTTCATCTTCAAAA  
 CCATTCTGACAACTTTTTAGGATGGGCAGCAGTCTCTTGGAGTCCCAAACCCAGATCAGTGGACCAT  
 CCCTGCCCGGATCCTCTCTCTCCACAGACTTTGGCAGCTGGCAGCTGGTATCGGGCTGTGGCAGTATTC  
 AGGACCGGCTGTCTGCACACAGACTCCTCTCTCCCTTTCAGCTTCCAGGATGAGCTCCCTAACAGTTG  
 TCTACTTACAGCTCTGAGTGACCGGAGACAAGGCTGCAGGAGGTGCGGTCTGCCTTCTTGGCTGCATAC  
 AGCAGCACAGTGGGACTTCGAGCAGCAACCCCACTCCCTCTGGTGCATCGGGGCTGCTAGAACAGT  
 TTGCCCGTGGTGTGGGCTCCGGGCACAAGCACCAGCACCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208470 protein sequence  
 Red=Cloning site Green=Tags(s)

MARCRGRFVCPVILFKGKHICRSATLAGWGELYGRSGYNYLFSGGADDTWASTEDVTEEDFVLRSGDTHL  
 FDKVRGYDIKLLQYLSVKYICDLMVENKKVKFGMNVTSSEKVDKAQRYANFTLLSIPYPGCEFFKEYKDR  
 DYMAEGLIFNWKQDYVDAPLNIPNFLTQSLNIDWSQYQSWDLVQQTQNYLKLLLFIMNRDDDSGLLVHCI  
 SGWDRTPLEFISLLRSLWADGLIHTSLKPAEILYLTVAYDWFLFGHMLVDRLSKGEEIFFCFNFKHIT  
 SEEFCLKTQRRKSLPTRDAGFTVEDICMLRHKDRGSTTSLGSDFLVLEHSPGAVGSFSYETVELAPAGA  
 PTQAARWRSKSSSPQMLWSRPQSEERLPSHHGLTEAKSSSSSSNHSNDFRMRGSSPLEVPKPRVDH  
 PLPGSSLSTDFGSWQLVSGCGSIQDRPVLHTDSSLPFQDELPSCLLTALSDRETRLQEVRSFAFLAAY  
 SSTVGLRAATPSPSGAIGLLEQFARGVGLRGTSTL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_026849

**ORF Size:** 1587 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\\_026849.1](#), [NP\\_081125.1](#)
**RefSeq Size:** 2676 bp

**RefSeq ORF:** 1947 bp

**Locus ID:** 97287

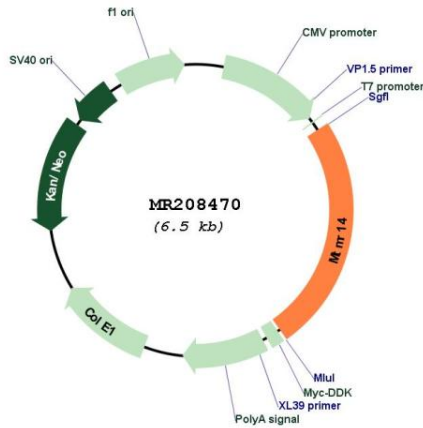
**UniProt ID:** [Q8VEL2](#)

**Cytogenetics:** 6 E3

**MW:** 59.2 kDa

**Gene Summary:** Lipid phosphatase which efficiently dephosphorylates phosphatidylinositol 3-phosphate (PtdIns3P) and PtdIns(3,5)P<sub>2</sub>; inactive toward PtdIns4P, PtdIns(3,4)P<sub>2</sub>, PtdIns(4,5)P<sub>2</sub> and PtdIns(3,4,5)P<sub>3</sub>. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208470