

Product datasheet for **MG208470**

Mtmr14 (NM_026849) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr14 (NM_026849) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtmr14
Synonyms:	1110061O04Rik; AW553738; C76151
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208470 representing NM_026849
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGGTGCAGAGGTCGGTTTGTCTGCCAGTGATCCTGTTCAAAGGCAAGCATATTTGCAGGTCGG
 CCACACTGGCTGGATGGGAGAGCTATATGGACGCTCGGATACAACATTTTATTCTCAGGGGAGCAGA
 TGATACCTGGCAAGTACAGAAGATGTCACAGAAGAGGACTTTGTTCTTCGGAGTGGTGACACACACCTT
 TTTGATAAGGTGAGAGGCTATGATATCAAGCTGCTTCAATACCTGTCAGTCAAGTACATCTGTGACCTGA
 TGGTGGAGAACAAGAAGGTGAAGTTTGGCATGAATGTAACCTCCTCTGAGAAGGTGGACAAAGCCACGG
 CTATGCAAACCTCACTCTCTCTATTCCATATCCAGGTTGTGAATTCTTCAAGGAATATAAAGATCGG
 GATTACATGGCTGAAGGGCTCATATTTAACTGGAAGCAGGACTACGTCGATGCCCATTTGAACATCCCCA
 ACTTCTGACTCAATCTCTGAACATTGACTGGAGCCAGTATCAGAGTTGGGACCTGGTGCACAAACACA
 GAACTACCTGAAACTGCTGCTTTTCATCATGAACAGAGATGATGACAGCGGGCTGCTGGTACACTGTATC
 TCAGGCTGGGACCGGACCCCTTTCATCTCTTCTGCGCCTTTCCTTGTGGGCTGATGGGCTAATTC
 ACACATCCCTGAAGCCTGCTGAGATCCTACCTGACTGTGCCTATGACTGGTTCCTTTTGGACACAT
 GTTGGTAGATCGGCTCAGCAAAGGGGAGGAGATTTTCTTCTTTGCTTCAATTTTTTGAAGCATATCACC
 TCCGAAGAGTTCTGCCTGAAGACCCAGAGGAGGAAGAGTTTGCCAACTCGGGATGCAGGCTTCACTGTGG
 AAGATATCTGCATGTTGAGACACAAAGATCGAGGCAGCACAAACAGCCTAGGCAGCGACTTCTCCCTGGT
 CTTGGAGCACTCACCGGAGCTGTGGGGAGCTTCAGCTATGAGACTGTGGAACCTGCCCGGCAGGAGCA
 CCAACTCAGGCAGCTTGGAGGAAGAGTCACTCATCTCCACAGAGTATGCTCTGGAGCCGGCCACAGC
 CCTCTGAGGAGCGCTACCTTACACCATGGGCTCACTGAAGCCAAGTCTTCTAGCTTTCATCTTCAAA
 CCATTCTGACAACTTTTTCAGGATGGGCAGCAGTCTCTTGGAGTCCCCAACCCAGATCAGTGGACCAT
 CCCTGCCGGATCCTCTCTCTCCACAGACTTTGGCAGCTGGCAGCTGGTATCGGGCTGTGGCAGTATTC
 AGGACCGGCTGTCTGCACACAGACTCCTCTCTCCCTTTCAGCTTCCAGGATGAGCTCCCTAACAGTTG
 TCTACTTACAGCTCTGAGTGACCGGAGACAAGGCTGCAGGAGGTGCGGTCTGCCTTCTTGGCTGCATAC
 AGCAGCACAGTGGGACTTCGAGCAGCAACCCCAAGTCCCTCTGGTCCATCGGGGCTGCTAGAACAGT
 TTGCCCGTGGTGTGGGCTCCGGGCACAAGCACCAGCACCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208470 representing NM_026849
 Red=Cloning site Green=Tags(s)

MARCRGRFVCPVILFKGKHICRSATLAGWGELYGRSGYNLYFSGGADDTWASTEDVTEEDFVLRSGDTHL
 FDKVRGYDIKLLQYLSVKYICDLMVENKKVKFGMNVTSSEKVDKAQRYANFTLLSIPYPGCEFFKEYKDR
 DYMAEGLIFNWKQDYVDAPLNIPNFLTQSLNIDWSQYQSWDLVQQTQNYLKLLFIMNRDDSGLLVHCI
 SGWDRTPLFISLLRSLWADGLIHTSLKPAEILYLTVAVDWFLFGHMLVDRLSKGEEIFFCFNFKHIT
 SEEFCLKTQRRKSLPTRDAGFTVEDICMLRHKDRGSTSLGSDFLVLEHSPGAVGSFSYETVELAPAGA
 PTQAARWKSHSSSPQSMWLRPQPSEERLPSHHGLTEAKSSSSSSNHSNDFRFGSSPLEVPKPRSDH
 PLPGSSSLSTDFGSWQLVSGCGSIQDRPVLHTDSSLPFQDELPSCLLTALSDRETRLQEVRSFAFLAAY
 SSTVGLRAATPSPSGAIGLLEQFARGVGLRGTSTL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_026849
ORF Size:	1584 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:	<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_026849.1 , NP_081125.1
RefSeq Size:	2500 bp
RefSeq ORF:	1947 bp
Locus ID:	97287
UniProt ID:	Q8VEL2
Cytogenetics:	6 E3
Gene Summary:	Lipid phosphatase which efficiently dephosphorylates phosphatidylinositol 3-phosphate (PtdIns3P) and PtdIns(3,5)P2; inactive toward PtdIns4P, PtdIns(3,4)P2, PtdIns(4,5)P2 and PtdIns(3,4,5)P3.[UniProtKB/Swiss-Prot Function]