

Product datasheet for **MG211115**

Mtmr4 (BC058364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmr4 (BC058364) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtmr4
Synonyms:	AA596759; ESTM44; FYVE-DSP2; mKIAA0647; ZFYVE11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211115 representing BC058364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGAGGAGGGCCCCCAGCCTGGAGTACATCCAAGCCAAGGATCTGTTCCCCCAGGAAGTGG
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 TAGTTACCCCGAAGCTGCTGGTTCCTGTGTGGATCACAGATAAAGAGCTGGAGAAGCTGGCTTCTTTTC
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 GCCAGCCTGAGATCAGCTGGTGGGGCTGGCGCAATGCTGATGATGAATACCTCGTACGTCATTGCCAA
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 TGCTTGCTTATGGCTGTTGTAGCAAGAGGCCGAGCAATAAGCATATTGAGCTGCAGGGCCCTGCCTGG
 GGGCCAGTGGGCTCAGAGAGAAGGGATGAAATCTCCTGTCTGTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG211115 representing BC058364
 Red=Cloning site Green=Tags(s)

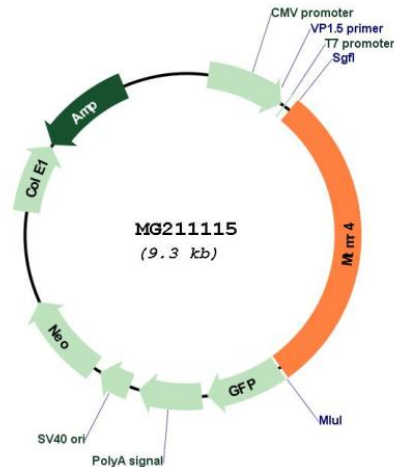
MGEEGPPSLEYIQAKDLFPPKELVKEEENLQVPFILLQEGEVFLGRATDALIAISNYRLHIKFKDSVIN
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 EEDQHTLHCQPGEHIRCRQEAELARMGFDLQNVWRVSHINSNYKLCPSPYQKLLVPVWITDKELENVASF
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 EACDTRDFDSSLTACSGVESTAAPQKLLILDARSYTAAVANRAKGGCECEEYYPNCEVLFMGMANIHAIR
 NSFQYLRAVCSQMPDPSNWL SALESTKWLQHL SVMLKAAVLVANTVDREGRPVLVHCSGDWDRTPQIVAL
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 NEAFLVLHPVCHVRALHLWTAVYLPASSPCTLGEENMDLYLSPVAQSQEFSGRSLDRLPKTRSMDDL
 SA CDTSSPLTRTSSDPNLNHSQEVRSLEPWHSSPEGAETVIDSGVSPQLTVGEMGLPPLPSSQKEYLS
 NKPFGKHGKCSLSYKLLNTSVSWEMKSNTSDIKVLEETEALAPDPSAQEEQGRSDGLGKPEQFLEKEA
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 LSQDPPGSTASISHQEQPSSVPDLIYKKEDAGKRGSKNGQLLENPRFGKMPLELARKPISQSQISEFSFL
 GSNWDSFQGMMSFSPSGETTPRRLLAYGCCSKRPSNKH IRAAGPCLGGPVGSRERDEISCLF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC058364

ORF Size: 2706 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: [BC058364.1](#)

RefSeq Size: 4452 bp

RefSeq ORF: 2708 bp

Locus ID: 170749

Cytogenetics: 11 C

Gene Summary:

Dephosphorylates proteins phosphorylated on Ser, Thr, and Tyr residues and low molecular weight phosphatase substrate para-nitrophenylphosphate. Phosphorylates phosphatidylinositol 3,4,5-trisphosphate (PIP3) (By similarity).[UniProtKB/Swiss-Prot Function]