

Product datasheet for **MG219985**

Mtmt4 (NM_133215) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmt4 (NM_133215) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtmt4
Synonyms:	AA596759; ESTM44; FYVE-DSP2; mKIAA0647; ZFYVE11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219985 representing NM_133215 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGAGGAGGGCCCCCAGCCTGGAGTACATCCAAGCCAAGGATCTGTTCCCCCAAGGAAGTGG
TGAAGGAGGAGGAGAATCTTCAGGTACCCTTACAGTGCAGGGTGGAGGAGTGAATCCTGGGCCG
GGCAACCGATGCCCTCATTGCCATCTCTAACTACCGGTCACATCAAGTTCAAAGACTCTGTCATCAAC
GTGCCCTCCGGATGATTGACAGTGTGAAAGCCGTGATATGTTTCAGTGCACATTGCCTGCAAGGACT
CCAAAGTGGTGGAGTCCACTTCTACTTTCAAGCAGTGCCAAGAGTGGCTCTCAAGGCTAAGCCGGG
CACAGCGAGACCTGCCAAGCCGAGGATCTCTTGCCTTTGCCTACCATGCGTGGTGCCTGGGGCTGACC
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CAAGGATGGGTTTTGACCTGCAGAAATGTCTGGAGAGTCTCGCATATCAACAGCAATTACAAGCTGTGCC
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GCCAGCCTGAGATCAGCTGGTGGGGCTGGCGCAATGCTGATGATGAATACCTCGTCACGTCCATTGCCAA
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AATGAAGCATTCTGGTAAAGCTGGTGCAGCACATACTCGTGTCTCTACGGCACATTCCTGGCCAACA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

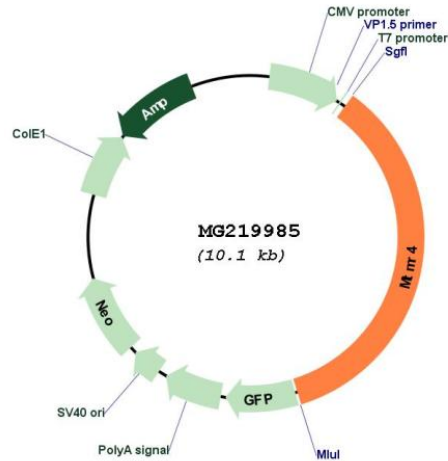
Protein Sequence: >MG219985 representing NM_133215
 Red=Cloning site Green=Tags(s)

MGEEGPPSLEYIQAKDLFPPKELVKEEENLQVPFTVLQGEGVEFLGRATDALIAISNYRLHIKFKDSVIN
 VPLRMIDSVESRDMFQLHIACKDSKVVRCHFSTFKQCQEWLSRLSRATARPAKPEDLFAFAYHAWCLGLT
 EEDQHTLHCQPGEHIRCRQEAELARMGFDLQNVWRVSHINSNYKLCPSPYQKLLVPVWITDKELENVASF
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 NEAFLVKLVQHTYSCLYGTFLANNPCEREKRNIIKRTCSVWALLRAGKNFHNFLYTPGSDVVLHPVCHV
 RALHLWTAAYLPASSPCTLGEENMDLYLSPVAQSQEFSGRSLDRLPKTRSMDDL SACDTSSPLTRTSSD
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 ACDFFPEPPQDPLTGTPQQPHLDSMQISPSRCTPDHSQGSLECNPPSVASQTPEPNTDLLSQDPPGSTASIS
 HQEQPSSVPDLIYKEDAGKRGSKNGQLLENPRFGKMPLELARKPISQSQISEFSLGNSWDSFQGMMS
 FPGSETTPRRLAYGCCSKRPSNKHIRAAGPCLGGQWAQREGMKSPVCSHSHNGHCTGPGGKNNRMWFS
 HPKQVSSTKPSLLSCPSPVPLYLDDDGLPFPTDVIQHLRQIEAGYRQEVEQLRRQVRELQMRDLIRHC
 CAPPAEPPMDYEDDFTCLESDGSDTEDFGSDHSEDCLSEASWEPVKKETEVTTRVWPDHMAHSHCFNCDC
 EFWLAKRRHRCRNCGNVFCAGCCHLKLIPDQQLYDPVLCNSCYEHIQVSRARELMSQHLKKPIATASS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
 Cloning Scheme:



Plasmid Map:


ACCN: NM_133215

ORF Size: 3570 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_133215.2](#)

RefSeq Size: 5710 bp

RefSeq ORF: 3573 bp

Locus ID: 170749

UniProt ID: [Q91XS1](#)

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]