

## Product datasheet for **MG211596**

### Mtmt3 (NM\_028860) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mtmt3 (NM_028860) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtmt3
Synonyms:	1700092A20Rik; AI255150; AW557713; FYVE-DSP1; mKIAA0371; ZFYVE10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211596 representing NM_028860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGAAGAGATGCGGCATAGCCTTGAGTGCATCCAGGCCAATCAGATCTTTCCAGGAAGCAGCTGA  
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TGCTGAGGAGGCCATCATTGCTCTTTCTAATTACAGGCTTCACATCAAGTTCAAGGAGTCTCTTGCAAT  
GTTCCATTACAGCTTATTGAAAGCGTTGAATGCCGTGATATATTTACAGCTTCATTTGACATGCAAAGACT  
GCAAAGTTATCAGGTGTCAGTTCCTCAACCTTTGAGCAATGTCAAGATTGGCTTAAGAGATTGAACAATGC  
AATCCGACCACCTGGTAAAATAGAAGATCTCTTCTCATTTCATACCATGCTTGGTGCATGGAGGCTAC  
GCCAGTAAAAGGAGCAGCATGGAGACCTGTGCAGACCAGGGGAACATGTGACGTCAAGGTTAAGAATG  
AAGTGGAGCGGATGGGTTTTGATATGAACAATGCCTGGAGGATTTCCAACATCAATGAGAAATACAAATT  
ATGTGGTAGTTATCCACAAGAGCTCATAGTGCCTGCTTGGATCACTGACAAAGAGCTGAAAGCGTGGCA  
GGCTTCAGATCCTGGAAGCGCATCCCTGCTGCATCTACAGGCACCAGAGCAATGGAGCTGTCATTGCC  
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AGCCAAAGGAGGAGGCTGTGAGTGCCAGAGTATTATCCTAACTGTGAAGTTGTGTTTATGGGAATGGCA  
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TGATCTGAATGAGCGCTGCCAGTGTCTACAATGGCTTACTGTGTTCACTTCAGAGGCAGTTT



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CCTTGCTCTTTGAGTTCAACGAAGCATTCCCTGTGAAACTGGTACAGCATACCTATTCCTGTCTCTTTG  
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CCTAGCCAGCAGCTTTTGAACCCAGTCGAGTGTGCAAGTCTTGCTATAGCAGCTCCATCTACAAGCT  
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

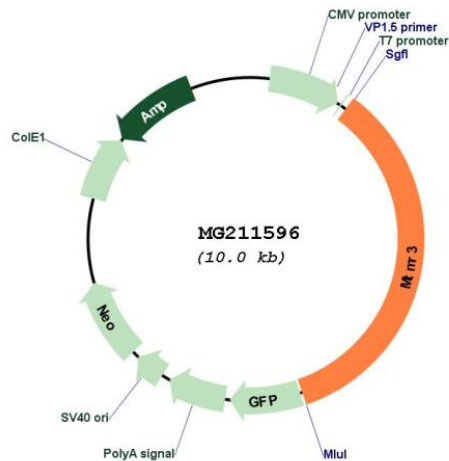
Protein Sequence: >MG211596 representing NM\_028860  
 Red=Cloning site Green=Tags(s)

MDEEMRHSLECIQANQIFPRKQLIREDENLQVPFLELHGESTEYVGRAEEAIIALSRYRLHIKFKESLVN  
 VPLQLIESVECRDIFQLHLTKDCKVIRCQFPTFEQCQDWLKRLLNNAIRPPGKIEDLFSFAYHAWCMEVY  
 ASEKEQHGLDCRPGEHVTSRFKNEVERMGFDMNNAWRISNINEKYKLCGSPYQELIVPAWITDKELESVA  
 GFRSWKRIPAVIYRHQSNGAVIARCGQPEVSWGWWRNADDEHLVQSVARACASDSQSSISKVSTRNSCRD  
 FPNAGDLSDFEFSSLSNTSGAESLALQPQKLLILDARSYAAAVANRAKGGGCECEPEYYPNCEVVFMGMA  
 NIHSIRRSFQSLRLLCTQMPDPGNWLSALESTKWLHLLSVLLKSAVVHAVDRDQRPVLVHCSDGWDRD  
 PQIVALAKLLLDPPYRTIEGFQVLVEMEWLDFGHKFAADRCGHGEDSDDLNERCPVFLQWLDCVHQLQRQF  
 PCSFEFNEAFLVKLVQHTYSCLFGTFLCNAKERGEKQTQERTCSVWSSLRAGNAFKNLLYSSQSEAVL  
 YPVCHVRNMLWSAVYLPSPSTPTDDSCAPYVPGTSPDEPPLSRLPKTRSFNDLTTTCENMVLASR  
 RSSDPSLNEKWQEHGRSLELSSFASAGEEVPAMDRLKPSRLLGGAELVAAGVAEGQMENILQEATKEE  
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 NNSVHMLLEDKVKSESGPQLHHRPCPASSGRFSGKDMLPVAPEPRSAERQWDSVLHRTSSPGNTLSLLQ  
 APCALPLDKCRQGIVCNGALETENKASEQPAGFDLTKYPTPNGHCANWEAGRSKDSLHQLSATSCSSA  
 HLYSRNLHHKWLNSHSGRPSTTSSPDQPSRSHLDDDGMPVYTDTIQQRLRQIESGHQVEVETLKKQVQEL  
 KSRLESQYL TSSLRFNDFGDEVMTRWLPDHLAAHCYACDSAFWLASRKHHCRCNGVFCSSCCNQKVPV  
 PSQQLFEPSRVCKSCYSSSLHPTSSSIDLELDKPIAATSN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI  
 Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_028860

**ORF Size:** 3477 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\\_028860.2](#), [NP\\_083136.2](#)

**RefSeq Size:** 5691 bp

**RefSeq ORF:** 3480 bp

**Locus ID:** 74302

**Cytogenetics:** 11 A1

**Gene Summary:**

Phosphatase that acts on lipids with a phosphoinositol headgroup. Has phosphatase activity towards phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate. May also dephosphorylate proteins phosphorylated on Ser, Thr, and Tyr residues (By similarity). [UniProtKB/Swiss-Prot Function]