

Product datasheet for **MG216091**

Immt (NM_029673) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Immt (NM_029673) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Immt
Synonyms:	1700082C19Rik; D830041H16Rik; HMP; P87; P87/89; P89
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG216091 representing NM_029673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCGGGCCCTGTCACTTATCCGGCGTGACCGTCGCGGCCAGAGTTGTCTGTGTGGGAAGTTCGTCC
 TCCGTCCACTACGACCATGCCGTAGATACTCCACTTCAAGCAGTTCTGGGTTGACTGCTGGTAAGATTGC
 TGGAGCTGGCCTTTTGTTCGTTGGTGGAGGGATTGGTGGCACTATCCTGTATGCCAAATGGGATCCCAT
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 GACCTGGAGCTGGCAGCAAAGTTTGTCAATCAGCTCAAAGGGGAGTCCAGAAGAGTGGCAGGACTGGC
 TGAAGGAGGCCGAATGACCCTAGAAACTAAGCAGATAGTGGAGATCCTGACTGCATACGCCAGCGCCGT
 AGGAATAGGAACCACTCAAGTGCAGCAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216091 representing NM_029673
 Red=Cloning site Green=Tags(s)

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MLRACQLSGVTVAAQSCLCGKFVLRPLRPCRRYSTSSSSGLTAGKIAGALLFVGGGIGGTILYAKWDSH
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AKVVSQYHELVVQARDDFRKELDSITPDIIPGWKMSISDLAGKLSTDDLNSLIAHAHRRIDQLNRELAQ
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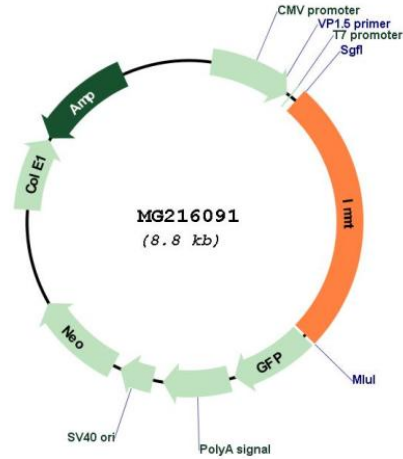
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_029673

ORF Size: 2271 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_029673.3](#), [NP_083949.2](#)

RefSeq Size: 2766 bp

RefSeq ORF: 2274 bp

Locus ID: 76614

UniProt ID: [Q8CAQ8](#)

Cytogenetics: 6 C1

Gene Summary: Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Plays an important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology. [UniProtKB/Swiss-Prot Function]