

Product datasheet for **MC221391**

Immt (NM_029673) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Immt (NM_029673) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Immt
Synonyms:	1700082C19Rik; D830041H16Rik; HMP; P87; P87/89; P89
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221391 representing NM_029673
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCGGGCCTGTCACTTATCCGGCGTGACCGTCGCGGCCAGAGTTGTCTGTGTGGGAAGTTCGTCC
 TCCGTCCACTACGACCATGCCGTAGATACTCCACTTCAAGCAGTTCTGGGTTGACTGCTGGTAAGATTGC
 TGGAGCTGGCCTTTTGTTCGTTGGTGGAGGATTGGTGGCACTATCCTGTATGCCAAATGGGATCCCAT
 TTCCGGGAAAGTGTAGAGAAAACCATCCCTTACTCAGACAACTCTTTGGGATGGTTCTTGGTTCTGCGC
 CTTATACTGTTCCATTACCAAAGAAACCGGTTCACTCTGGTCCACTAAAAATCTCCAGTGTATCAGAGGT
 GATGAAAGACTCCAACTGCCTGTGGCAGAGCCAGAAAACGAAGGGAGACTCCAGCTTCAGCAGCA
 TCTACAGGGGAGCTCAAATTTCTGCAGCAGGTGATACACTTTCGGTCCCGGCCCTGCAGTTCAGC
 ATGAGGACACTATAAAAACCGAATGTCCCAACTAATGAAGGAAAATCTACGTCTGAAACCACAGAGGA
 AGCATTCTCATCTTCTGTAAAGGAGCGACCACCGAAGAAGTTGCAGCTCGTCTAGCGCAACAGGAAAAG
 CAAGAACAAGTTGAGATGGAGTCTCTAGCCAAGAGTTTGAAGATGCTCTGAACCGGACTTCGTCTGTCA
 CTCTGCAGACTATTACAGCCAGAAATGCTGCAGTTCAGGCTGTCAAGGCACACTCCAACATACTGAAAAC
 AGCCATGGACAATTCTGAGATTGCAGGTGAGAAGAAGTCGGCCAGTGGCGAACAGTGGAGGGTGCATTG
 AAGGAGCGAAGAAAGGCAGTTGATGAAGCTGCCGATGCCCTGCTCAAAGCAAAGAAGAGTTAGAGAAGA
 TGAAAACATAAATTGAAGATGCAAAGAAAAGAGAGATTGCTGGAGCCACCCCTCATAACTGCTGCAGA
 GGGGAGACTTCACAACATGATAGTTGATCTGGATAACGTCGTCAAAAAGTCCAGGCTGCTCAGTCAGAG
 GCAAAGGTGGTATCTCAGTATCATGAACCTGTGGTCCAAGCAAGAGATGACTTTAGAAAAGAGCTGGACA
 GTATCACTCCAGACATCACTCCGGATGGAAAGGGATGAGTATTTCTGACCTAGCTGGCAAACCTCTCTAC
 TGATGACCTGAACCTCACTCATTGCTCATGCCATCGTCGATTGATCAGCTCAACAGAGAGCTAGCACAA
 CAGAAAAGCCACAGAGAAGCAGCACATTGAGCTAGCCTTGAAAAGCACAAGCTAGAAGAAAAGCGGACCT
 TTGACTCTGCAGTGGCAAAGCATTGGAGCACACAGAAGTGAATTCAGGCTGAGCAGGACAGAAAAGGT
 AGAAGAAGTCAGAGATGCCATGGAGAATGAAATGCGGACCCAACCTCGACGGCAGGCAGCTGCCCACT
 GATCATTTACGAGATGTCCTCAAGGTGCAGGAACAGGAAGTGAAGTGAATTTGAACAGGGCCTGTCTG
 AGAAAAGTCTGAGCAAGAATTAGAGTTTCGTCGTCGAGTCAAGAACAATGGACAGCTTTACTCTGGA
 CATAAATACTGCCTATGCCAGTTGAGAGGGATTGAGCAGGCTGTTGAGTGCAGTGTGCTGAAGAA
 GAAGCCAGAAAAGCCACCAGCTCTGGCTTTCAGTGGAGGCATTAAGTACAGCATGAAGACCTCATCTG
 CAGAAATGCCTACCATCCATTGGGGAGTGCAGTTGAGGCCATCAGAGTCAACTGTTCTGATAATGAATT
 TACCCAGGCTTTAACTGCAGCCATTCTCCAGAGTCCCTGACCCGGGGGTATACAGTGAAGAGACCCTA
 AGAGCCCGTTTCTATGCTGTTCAAAAACAGCCGAAAGGGTAGCGATGATTGACGAAACCAGAAATAGCC
 TGTACCAATACTTCTTTCTACTTACAGTCCCTACTCTGTTCCCGCCTAAGCAACTGAAGCCCCGGC
 GGAGCTTACCCTGAAGATATAAATACATTTAAATTGCTCTCATATGCCTCCTATTGTATTGAGCATGGT
 GACCTGGAGCTGGCAGCAAAGTTTGTCAATCAGCTCAAAGGGGAGTCCAGAAGAGTGGCAGGACTGGC
 TGAAGGAGGCCGAATGACCCTAGAACTAAGCAGATAGTGGAGATCTGACTGCATACGCCAGCGCCGT
 AGGAATAGGAACCACTCAAGTGCAGCAAGAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1945_a11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_029673

Insert Size: 2274 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](#)

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

RefSeq Size: 2777 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).