

## Product datasheet for **MR230073**

### Immt (NM\_001253689) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Immt (NM_001253689) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Immt
Synonyms:	1700082C19Rik; D830041H16Rik; HMP; P87; P87/89; P89
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR230073 representing NM\_001253689  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGGGCCTGTCAGTTATCCGGCGTGACCGTCGCGGCCAGAGTTGTCTGTGTGGGAAGTTCGTCC  
 TCCGTCCACTACGACCATGCCGTAGATACTCCACTTCAAGCAGTTCTGGGTTGACTGCTGGTAAGATTGC  
 TGGAGCTGGCCTTTTGTTCGTTGGTGGAGGGATTGGTGGCACTATCCTGTATGCCAAATGGGATCCCAT  
 TTCCGGGAAAGTGTAGAGAAAACCATCCCTTACTCAGACAACTCTTTGGGATGGTTCTTGGTTCTGCGC  
 CTTATACTGTTCCATTACCAAAGAAACCGGTTCACTCTGGTCCACTAAAAATCTCCAGTGTATCAGAGGT  
 GATGAAAGACTCCAACTGCCTGTGGCACAGAGCCAGAAAACGAAGGGAGACACTCCAGTTCAGCAGCT  
 CTAGCCAAGAGTTTAGAAGATGCTCTGAACCGGACTTCGCTCTGCACTCTGCAGACTATTACAGCCCAGA  
 ATGCTGCAGTTCAGGCTGTCAAGGCACACTCCAACATACTGAAAACAGCCATGGACAATTCTGAGATTGC  
 AGGTGAGAAGAAGTCGGCCAGTGGCGAACAGTGGAGGGTGCATTGAAGGAGCGAAGAAAGCAGTTGAT  
 GAAGCTGCCGATGCCCTGCTCAAAGCAAAGAAGATTAGAGAAGATGAAAATAAATGAAGATGCAA  
 AGAAAAGAGAGATTGCTGGAGCCACCCCTCATATAACTGCTGCAGAGGGGAGACTTCACAACATGATAGT  
 TGATCTGGATAACGTCGTCAAAAGGTCCAGGCTGCTCAGTCAGAGGCAAGGTGGTATCTCAGTATCAT  
 GAACCTTGGTCCAAGCAAGAGATGACTTTAGAAAAGAGCTGGACAGTATCACTCCAGACATCACTCCTG  
 GATGGAAGGGATGAGTATTTCTGACCTAGCTGGCAAACCTCTCTACTGATGACCTGAACTCACTCATTGC  
 TCATGCCCATCGTCGATTGATCAGCTCAACAGAGAGCTAGCACAAACAGAAAGCCACAGAGAAGCAGCAC  
 ATTGAGCTAGCCTTGAAAAGCACAAGCTAGAAGAAAAGCGGACCTTTGACTCTGCAGTGGCAAAGCAT  
 TGGAGCACACAGAAGTAAAATTCAGGCTGAGCAGGACAGAAAGGTAGAAGAAGTCAAGATGCCATGGA  
 GAATGAAATGCGGACCCAACTTCGACGGCAGGCAGCTGCCACACTGATCATTTACGAGATGTCCTCAAG  
 GTGCAGGAACAGGAACTGAAGTATGAATTTGAACAGGGCCTGTCTGAGAACTGTCTGAGCAAGAATTAG  
 AGTTTCGTCGTCGAGTCAAGAACAATGGACAGCTTTACTCTGGACATAAATACTGCCTATGCCAGGTC  
 ATGCAGTTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230073 representing NM\_001253689  
 Red=Cloning site Green=Tags(s)

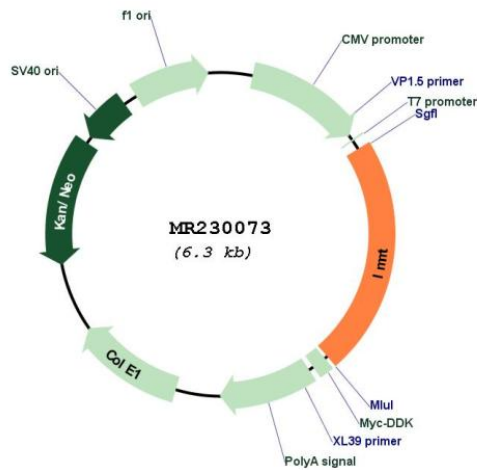
MLRACQLSGVTVAQSCLCGKFLRPLRPCRRYSTSSSSGLTAGKIAGAGLLFVGGGIGGTILYAKWDSH  
 FRESVEKTIPIYSDKLFMVLGSAPYTVPLPKPVQSGPLKISSVSEVMKDSKLPVAQSQKTKGDTPASAA  
 LAKSLEDALNRTSSVTLQITITAQNAAVQAVKAHSNLIKAMDNSEIAGEKKSAQWRTVEGALKERRKAVD  
 EAADALLKAKEELEKMKTIIEDAKKREIAGATPHITAAEGRHNMIVDLNDNVVKKVQAAQSEAKVVSQYH  
 ELVVQARDDFRKELDSITPDITPGWKGMSISDLAGKLSTDDLNSLIAHAHRRIDQLNRELAQQKATEKQH  
 IELALEKHKLEEKRTFDSAVAKALEHHRSEIQAEQDRKVEEVRDAMENEMRTQLRRQAAAHTDHLRDVLK  
 VQEQELKYEFEQGLSEKLESELEFRRRSQEQMDSFTLDINTAYARSCSC

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001253689

**ORF Size:** 1410 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\\_001253689.1](#), [NP\\_001240618.1](#)

**RefSeq Size:** 2514 bp

**RefSeq ORF:** 1413 bp

**Locus ID:** 76614

**Cytogenetics:** 6 C1

**MW:** 52.5 kDa

**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]