

## Product datasheet for **MR230949**

### Immt (NM\_001253687) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Immt (NM_001253687) 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:**

>MR230949 representing NM\_001253687  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCGGGCCTGTCTAGTTATCCGGCGTGACCGTCGCGGCCAGAGTTGTCTGTGTGGGAAGTTCGTCC  
 TCCGTCCACTACGACCATGCCGTAGATACTCCACTTCAAGCAGTTCTGGGTTGACTGCTGGTAAGATTGC  
 TGGAGCTGGCCTTTTGTTCGTTGGTGGAGGGATTGGTGGCACTATCCTGTATGCCAAATGGGATCCCAT  
 TTCCGGGAAAGTGTAGAGAAAACCATCCCTTACTCAGACAACTCTTTGGGATGGTTCTTGGTTCTGCGC  
 CTTATACTGTTCCATTACCAAAGAAACCGGTTCACTCTGGTCCACTAAAAATCTCCAGTGTATCAGAGGT  
 GATGAAAGACTCCAACTGCCTGTGGCAGAGCCAGAAAACGAAGGGAGACTCCAGTTCAGCAGCA  
 GGTGATACACTTTCGGTCCCGGCCCTGCAGTTCAGCATGAGGACTATAAAAAACCGAATGTCCCAACA  
 CTAATGAAGGAAAATCTACGCTGAAACCACAGCTCTAGCCAAGAGTTAGAAGATGCTCTGAACCGGAC  
 TTCGTCTGTCACTCTGCAGACTATTACAGCCAGAATGCTGCAGTTCAGGCTGTCAAGGCACACTCCAAC  
 ATACTGAAAACAGCCATGGACAATTCTGAGATTGCAAGGTGAGAAGAAGTCGGCCCAAGTGGCGAACAGTGG  
 AGGGTGCATTGAAGGAGCGAAGAAGGCAGTTGATGAAGCTGCCGATGCCCTGCTCAAAGCAAAGAAGA  
 GTTAGAGAAGATGAAAATAAATTGAAGATGCAAGAAAAGAGAGATTGCTGGAGCCACCCCTCATATA  
 ACTGCTGCAGAGGGGAGACTTCACAACATGATAGTTGATCTGGATAACGTCGTAAGGTTCCAGGCTG  
 CTCAGTCAGAGGCAAAGTGGTATCTCAGTATCATGAACTTGTGGTCCAAGCAAGAGATGACTTTAGAAA  
 AGAGCTGGACAGTATCACTCCAGACATCACTCCTGGATGGAAAGGGATGACTGGCAAACCTCTACTGAT  
 GACCTGAACTCACTCATTGCTCATGCCATCGTCGCATTGATCAGCTCAACAGAGAGCTAGCACAACAGA  
 AAGCCACAGAGAAGCAGCACATTGAGCTAGCCTTGGAAAAGCACAAAGCTAGAAGAAAAGCGGACCTTTGA  
 CTCTGCAGTGGCAAAGCATTGGAGACCACAGAAGTGAATTCAGGCTGAGCAGGACAGAAAGGTAGAA  
 GAAGTCAGAGATGCCATGGAGAATGAAATGCGGACCCAACCTCGACGGCAGGAGCTGCCACACTGATC  
 ATTTACGAGATGTCTCAAGGTGCAGGAACAGGAACTGAAGTATGAATTTGAACAGGGCCTGTCTGAGAA  
 ACTGTCTGAGCAAGAATTAGAGTTTCGTCGTCAGTCAAGAACAATGGACAGCTTTACTCTGGACATA  
 AATACTGCCTATGCCAGTTGAGAGGGATTGAGCAGGCTGTTGAGAGTATGCAGTTGCTGAAGAAGAAG  
 CCAGAAAAGCCCACCAGCTCTGGCTTTCAGTGGAGGCATTAAGTACAGCATGAAGACCTCATCTGCAGA  
 AATGCCTACCATCCCATGGGGAGTGCAGTTGAGGCCATCAGAGTCAACTGTTCTGATAATGAATTTACC  
 CAGGCTTTAACTGCAGCCATTCTCCAGAGTCCCTGACCCGGGGGTATACAGTGAAGAGACCCTAAGAG  
 CCCGTTTCTATGCTGTTCAAAAAGTCCGAGGAGGATGAGGATGATTGACGAAACAGAAATAGCCTGTA  
 CCAATACTTCTTCTACTTACAGTCCCTACTCTGTTCCCGCCTAAGCAACTGAAGCCCCCGGCGGAG  
 CTCTACCTGAAGATATAAATACATTTAAATTGCTCTCATATGCCTCCTATTGTATTGAGCATGGTGACC  
 TGGAGCTGGCAGCAAAGTTTGTCAATCAGCTCAAAGGGGAGTCCAGAAGAGTGGCACAGGACTGGCTGAA  
 GGAGGCCCGAATGACCCTAGAACTAAGCAGATAGTGGAGATCCTGACTGCATACGCCAGCGCCGTAGGA  
 ATAGGAACCACTCAAGTGCAGCAAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR230949 representing NM\_001253687  
 Red=Cloning site Green=Tags(s)

MLRACQLSGVTVAAQSCLCGKFVLRPLRPCRRYSTSSSSGLTAGKIAGAGLLFVGGGIGGTILYAKWDSH  
 FRESVEKTIPIYSDKLFGMVLGSAPYTVPLPKPVQSGPLKISSVSEVMKDSKLPVAQSQKTKGDTPASAA  
 GDTLSVPAPAVQHEDTIKTECPNTNEGKSTSETTALAKSLEDALNRTSSVTLQTITAQNAAVQAVKAHSN  
 ILKTAMDNSEIAGEKKS AQWRTVEGALKERRKAVDEAADALLKAKEELEKMKTIIEDAKKREIAGATPHI  
 TAAEGR LHNMIVDL DNVVKKVQAAQSEAKVVSQYHEL VVQARDDFRKELDSITPDITPGWKGMTGK LSTD  
 DLNSLIAHAHRRIDQLNRELAQQKATEKQHIELALEKHKLEEKRTFDSAVAKALEHHRSEIQAEQDRKVE  
 EVRDAMENEMRTLRRQAAAHTDHLRDVLKVQEQLKYEFEQGLSEKLEQELEFRRRSQEQMDSFTLDI  
 NTAYARLRGIEQAVQSHAVAE EEARKAHQLWLSVEALKYSMTSSAEMPTIPLGSAVEAIRVNCSDNEFT  
 QALTAAPPE SLTRGVYSEETLRARFYAVQKLARRVAMIDETRNSLYQYFLSYLQSLLLFPPKQLKPPAE  
 LYPEDINTFKLLSYASYCIEHGDL EAAKFVNQLKGESRRVAQDWLKEARMTLETKQIVEILTAYASAVG  
 IGTTQVQQE

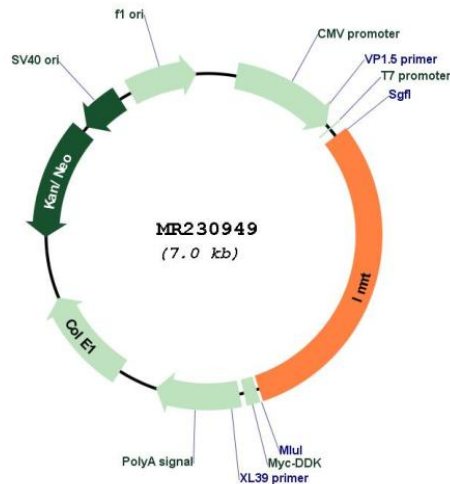
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001253687

**ORF Size:** 2127 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\\_001253687.1](#), [NP\\_001240616.1](#)

**RefSeq Size:** 2633 bp

**RefSeq ORF:** 2130 bp

Locus ID: 76614

UniProt ID: [Q8CAQ8](#)

Cytogenetics: 6 C1

MW: 79.2 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]