

Product datasheet for **MR231048**

Immt (NM_001253681) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Immt (NM_001253681) 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:

>MR231048 representing NM_001253681
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCGGGCCTGTCACTTATCCGGCGTGACCGTCGCGGCCAGAGTTGTCTGTGTGGGAAGTTCGTCC
TCCGTCCACTACGACCATGCCGTAGATACTCCACTTCAAGCAGTTCTGGGTTGACTGCTGGTAAGATTGC
TGGAGCTGGCCTTTTGTTCGTTGGTGGAGGGATTGGTGGCACTATCCTGTATGCCAAATGGGATCCCAT
TTCCGGGAAAAGTGTAGAGAAAACCATCCCTTACTCAGACAACTCTTTGGGATGGTTCTTGGTTCTGCGC
CTTATACTGTTCCATTACCAAAGAAACCGGTTCACTGCTGGTCCACTAAAAATCTCCAGTGTATCAGAGGT
GATGAAAGACTCCAACTGCCTGTGGCAGAGCCAGAAAACGAAGGGAGACACTCCAGCTTCAGCAGCA
GGTGATACACTTTCGGTCCCGGCCCTGCAGTTCAGCATGAGGACACTATAAAAACCGAATGTCCCAACA
CTAATGAAGGAAAATCTACGTCTGAAACCACAGAGGAAGCATTCTCATCTTCTGTAAGGGAGCGACCACC
CGAAGAAGTTGCAGCTCGTCTAGCGCAACAGGAAAAGCAAGAACAAGTTGAGATGGAGTCTCTAGCCAAG
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TTCAGGCTGTCAAGGCACACTCCAACATACTGAAAACAGCCATGGACAATTCTGAGATTGCAAGGTGAGAA
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GATGCCCTGCTCAAAGCAAAAAGAAGAGTTAGAGAAGATGAAAACATAAATTGAAGATGCAAGAAAAGAG
AGATTGCTGGAGCCACCCTCATATAACTGCTGCAGAGGGGAGACTTCACAACATGATAGTTGATCTGGA
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GTCCAAGCAAGAGATGACTTTAGAAAAGAGCTGGACAGTATCACTCCAGACATCACTCCTGGATGGAAG
TCGTGCGATTGATCAGCTCAACAGAGAGCTAGCACAACAGAAAAGCCACAGAGAAGCAGCACATTGAGCTA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231048 representing NM_001253681
 Red=Cloning site Green=Tags(s)

MLRACQLSGVTVAAQSCLCGKFVLRPLRPCRRYSTSSSSGLTAGKIAGAGLLFVGGGIGGTILYAKWDSH
 FRESVEKTIPIYSDKLFMVLGSAFYTVPLPKPVQSGPLKISSVSEVMKDSKLPVAQSQTKGDTPASAA
 GDTLSVPAPAVQHEDTIKTECPNTEGKSTSETTEEFSSSVRERPPPEVAARLAQQEKQEQVEMESLAK
 SLEDALNRTSSVTLQTITAQNAAVQAVKAHNSILKTAMDNSEIAGEKKSQWRTVEGALKERRKAVDEAA
 DALLKAKEELEKMKTIIEDAKKREIAGATPHITAAEGRLHNMIVDL DNVVKKVQAAQSEAKVVSQYHEL
 VQARDDFRKELDSITPDITPGWKMSISDLAGKSTDDLNSLIAHAHRRIDQLNRELAQQKATEKQHIEL
 ALEKHKLEEKRTFDSAVAKALEHHRSEIQAEQDRKVEEVRDAMENEMRTQLRRQAAAHTDHLRDVLKVE
 QELKYEFEQGLESEKLESELEFRRRSQEQMDSFTLDINTAYARLRGIEQAVQSHAVAEERKAKHQLWLS
 VEALKYSMTSSAEMPTIPLGSAVEAIRVNCSDNEFTQALTAAPPEL TRGVYSEETLRARFYAVQKLA
 RRVAMIDETRNSLYQYFLSYLQSLLLFPKQLKPPAELYPEDINTFKLLSYASYCIEHGDLLEAAKFNQ
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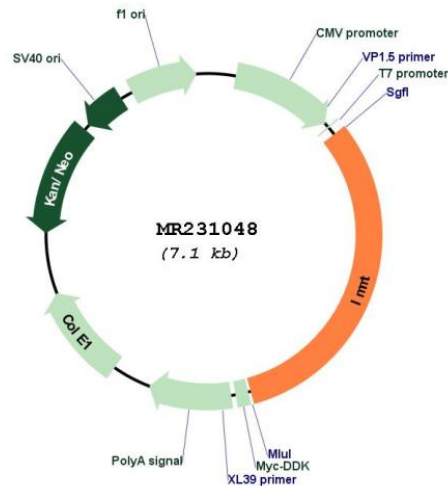
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001253681

ORF Size: 2238 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_001253681.1](#), [NP_001240610.1](#)

RefSeq Size: 2744 bp

RefSeq ORF: 2241 bp

Locus ID: 76614

UniProt ID: [Q8CAQ8](#)

Cytogenetics: 6 C1

MW: 83.4 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]