

## Product datasheet for **MR224121**

### Trim14 (NM\_029077) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim14 (NM_029077) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim14
Synonyms:	5830400N10Rik; pub
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR224121 representing NM\_029077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGAGCGAGACTACCGAGGCGGGGCCCTTTCAGCCCACGGGGCGTATGGCTGGCGCTGTCCGG  
 AGCACAGCGAACGCCCGCTGAGCTCTTCTGTCGCGCTGCGGCCGCTGTGTGTGCGCGCTTGCCCGGT  
 TCTGGGTGCGCACCGCGGCCACCCGGTGGGCTGGCCGAGGAGGAGCTGTGCGTGTGCAGAAGCTAATC  
 CAGGACTGTTTAGAGTGTGGCAACCAAGAAGAGGCAACATGCGGACAACATAGCCATTTGGAAGACG  
 CCGGGAAAGGCTCAAGTTCACGAGACTCAAGTAAAGCCTGGCTGACACAGAAATTCACAGAACTCAG  
 ATTACTCTGGATGAAGAGGAAGTACTGGCAAAAAATTCATTGACAAAAGCACAGCTCACCTCCAG  
 GTGTACCGGGAGCAAGCCGAGACTTGTGGGAAGCAGATTGAGGTCATGGATGACTTCTTACCAGGGTGT  
 GGGCATTGGCCAGGAGCCCAACCTGTTACGCTGCTGCAGGCATATATAGCCACCAAGACAGAGATGGG  
 ACAGCAGATGAGCCCTCGGAGCTGAGCCACCCTGTGCCCTGTCCTTCGAGCCTGTCAAGAACTCTTT  
 AAGGAGTTTGTGAAGCCATCGGGAACACGTTGCAGACACCAATGGACACTCGCCTGAAGGAAAACATAA  
 ACTGCCAGCTTTCAAACCTCCAGCACCAAGCCAGGCGCCTTGTGAAAACAGCCCTCGCCAGAGAG  
 AGCTCTCTTTGAAATACGCCCGTACGCCAACGCTGGACCCGGACAGATGCACGCGCGCTGCGCCTG  
 TCGCCGGACGGTCTGACAGTCCGCTGCTCGCTGCTGGGTGCGCTGGGGCCGCGTCCCGCGCCGCGTTG  
 ACGCGTGCGGCAGGTGCTGGGCCGCGACGGCTTCGCAGCCGGACGCCACTACTGGGAGGTGGACGTGCA  
 GGAGGCCGGTGTGGGCTGGTGGTGGGCGCGCGTACCCGTCGCTGCGCCGCCGGAGCCTCCGCCGCC  
 GCCCGCTGGGCTGCAACCGCAGTCTGTTGGTAAAGCGTTACGACCTAGAGTACTGGCCTTCCATG  
 ACGGCCAGCGAAGTCCCTGCGCCCGCCGACCCCAACCCGCTCGGCTCTTCTGGACTACGAGGC  
 CGGCATTCTGGCCTTCTACGACGTGGCGGGTGGCATGAGCCACTTGCACACCTTCCACGCCCTTCCAG  
 GAGCCGCTCTATCCAGCCCTGCGCTCTGGGAGGGGCCATCAGCATCCCTAGGTTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224121 representing NM\_029077  
 Red=Cloning site Green=Tags(s)

MASETTEARAPFQPDGAYGWRCPEHSERPAELFCRRRCGRVCALCPVLGAHRGHPVGLAEEEEAVRVQKLI  
 QDCLECLATKKRQHADNIAHLEDAGERLKVYADSSKAWLTQKFTELRLLLDEEVLAKKFIDKSTQLTLQ  
 VYREQAETCGKQIEVMDDFSTRVWIGQEPNPVQLLQAYIATKTEMGQQMSPSEL SHPVPLSFEPVKNFF  
 KEFVEAIGNTLQTPMDTRLKENINCQLSNSSTKPGALLKTSPPERALFLKYARTPTLDPDTMHARLRL  
 SPDGLTVRCSLLGRLGPRPAPRFDALRQVLGRDGF AAGRHYWEVDVQEAGVWWWGAAAYPSLRRRGASAA  
 ARLGCNRESWCVKRYDLEYWAFHDGQRSRLRPRRDPHRLGVFLDYEAGILAFYDVAGGMSHLHTFHAAFQ  
 EPLYPALRLWEGPISIPRLP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9036\\_h07.zip](https://cdn.origene.com/chromatograms/mm9036_h07.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_029077

**ORF Size:** 1320 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\\_029077.4](#), [NP\\_083353.1](#)

**RefSeq Size:** 3204 bp

**RefSeq ORF:** 1323 bp

**Locus ID:** 74735

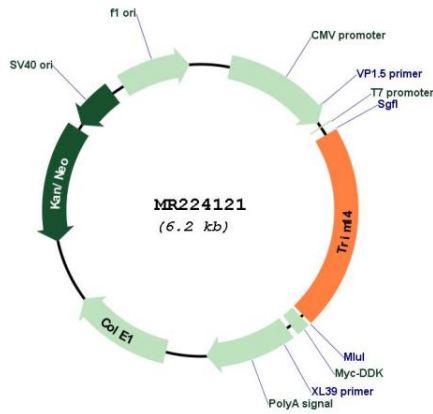
**UniProt ID:** [Q8BVW3](#)

**Cytogenetics:** 4 B1

**MW:** 50.1 kDa

**Gene Summary:** Plays a role in the innate immune defense against viruses. Facilitates the type I IFN response by interacting with MAVS at the outer mitochondria membrane and thereby recruiting NF-kappa-B essential modulator IKBKG/NEMO to the MAVS signalosome, leading to the activation of both the IFN regulatory factor 3/IRF3 and NF-kappa-B pathways. Positively regulates the CGAS-induced type I interferon signaling pathway by stabilizing CGAS and inhibiting its autophagic degradation (PubMed:27666593). Inhibits the transcriptional activity of SPI1 in a dose-dependent manner (PubMed:14592421).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224121