

Product datasheet for **MG224121**

Trim14 (NM_029077) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim14 (NM_029077) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim14
Synonyms:	5830400N10Rik; pub
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224121 representing NM_029077 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCGAGACTACCGAGGCGGGGCCCTTTCAGCCCGACGGGGCGTATGGCTGGCGCTGTCCGG
AGCACAGCGAACGCCGGCTGAGCTCTTCTGTGCGCCGCTGCGGCCGCTGTGTGTGCGCGCTCTGCCCGT
TCTGGGTGCGCACCGGCCACCCGGTGGGCTGGCCGAGGAGGAGGCTGTGCGTGTGCAGAAGCTAATC
CAGGACTGTTTAGAGTGTGGCAACCAAGAAGAGGCAACATGCGGACAACATAGCCATTTGGAAGACG
CCGGGAAAGGCTCAAGTTTACGCAGACTCAAGTAAAGCCTGGCTGACACAGAAATTCACAGAACTCAG
ATTACTCCTGGATGAAGAGGAAGTACTGGCCAAAAAATTCATTGACAAAAGCACACAGCTCACCTCCAG
GTGTACCGGGAGCAAGCCGAGACTTGTGGGAAGCAGATTGAGGTCATGGATGACTTCTCTACCAGGGTGT
GGGGCATTGGCCAGGAGCCCAACCCTGTTCACTGCTGCGAGGCATATATAGCCACCAAGACAGAGATGGG
ACAGCAGATGAGCCCCTCGGAGCTGAGCCACCCTGTGCCCTGTCTTCGAGCCTGTCAAGAACTCTTT
AAGGAGTTTGTGAAGCCATCGGGAACACGTTGCAGACACCAATGGACTCGCCTGAAGAAAACATAA
ACTGCCAGCTTCAAACCTCCAGCACCAAGCCAGGCGCCTTGTGAAAACAGCCCCTCGCCAGAGAG
AGCTCTCTTTGAAATACGCCGTACGCCAACGCTGGACCCGGACACGATGCACGCGCGCTGCGCCTG
TCGCCGACGGTCTGACAGTCCGCTGCTGCTGGTGGTGGGCGCGGTACCCGTCGCTGCGCCGCCGCGGAGCCTCCGCCGCC
ACGCGCTGCGGCAGGTGCTGGGCCGCGACGGCTTCGCAGCCGGACGCCACTACTGGGAGGTGGACGTGCA
GGAGGCCGGTGTGGGCTGGTGGTGGGCGCGCGTACCCGTCGCTGCGCCGCCGCGGAGCCTCCGCCGCC
GCCCGCTGGGCTGCAACCGCGAGTCGTGGTGCCTAAAGCGTTACGACTAGAGTACTGGCCTTCCATG
ACGGCCAGCGAAGTCGCTGCGGCCCGCGGACCCCAACCGGCTCGGCGTCTTCTGGACTACGAGGC
CGGCATTCTGGCCTTCTACGACGTGGCGGTGGCATGAGCCACTTGCACACCTTCCACGCCGCTTCCAG
GAGCCGCTCTATCCAGCCCTGCGCCTCTGGGAGGGGCCATCAGCATCCCTAGGTTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224121 representing NM_029077
 Red=Cloning site Green=Tags(s)

MASETTEARAPFQPDGAYGWRCPEHSERPAELFCRRCGRCVCALCPVLGAHRGHPVGLAEEEEAVRVQKLI
 QDCLECLATKKRQHADNIAHLEDAGERLKVYADSSKAWLTQKFTLRLLLDEEEVLAKKFIDKSTQLTLQ
 VYREQAETCGKQIEVMDDFSTRVWIGIQEPNPVQLLQAYIATKTEMGQQMSPSEL SHPVPLSFEPVKNFF
 KEFVEAIGNLTQTPMDTRLKENINCQLSNSSTKPGALLKTSPPERALFLKYARTPTLDPDTMHARLRL
 SPDGLTVRCSLLGRLGPRPAPRFDALRQVLGRDGF AAGRHYWEVDVQEAGVGVWVWVGAAYPSLRRRGASAA
 ARLGCNRESWCVKRYDLEYWAFHDGQRSRLRPRRDPHRLGVFLDYEAGILAFYDVAGGMSHLHTFHAAFQ
 EPLYPALRLWEGPISIPRLP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029077

ORF Size: 3201 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 ORF: 1323 bp

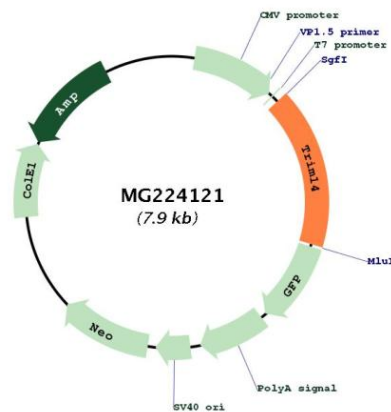
Locus ID: 74735

UniProt ID: [Q8BVW3](#)

Cytogenetics: 4 B1

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 MG224121