

Product datasheet for **MC219424**

Trim29 (NM_023655) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim29 (NM_023655) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trim29
Synonyms:	1110047J21Rik; 2810431N19Rik; 4732461M22Rik; AI119726
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219424 representing NM_023655
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGTGTCCGATGCCTGCAGGAGCAATGGGGCCAGCCGGAAGCCAGGGACACCCGAGCCACCGG
 GTCCCAGCGGCAGCCTAGAGAATGGCACTAAAGCAGACAGTAAGGACACCAAGACAACCAACGGGCACAG
 TGGGGAGGTGACAGAGGGCAAGACCCTGGGCAGTGCCCTGAAGTCAGGGAGGGGAAGAGTGGCCTATTT
 TCCAGCAATGAGTGGCGCAGGCCTATCATCCAGTTTGTGGAGTCTGTCGACGACAAAGGCTCCAGTTACT
 TCAGTATGGACTTGGGAAGGCAGGAGTCCCCTTATGCGGGGCTCCAGTTGGGGGCTTCCAAGAAACC
 TCCTGTGACCTTTGCTGAGAAGGGGAGCTGCGAAAGTCCATTTTCTCCGAGCCCGCAAACCCACGGTG
 ACCATCGTGGAGCCCGGGAAGTCCGAGGAATAGCTACCCAGGGCTGACTCCAGCCTCCTGGCGCGGG
 CAAAGTCGGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCCGTCAAGTCTG
 CCTGGTGTCCAGGCTTCTTCTGTGAGCTGCATCTGAAGCCCCACCTGGAGGGCGCTGCCTTCCGGGAC
 CACCAGCTGCTCGAGCCATCCGAGACTTCGAGGCCCGAAAATGTCCCTTGCACGGCAAGACTATGGAGC
 TCTTCTGTGACAGCCAGACCTGCATCTGTTATCTCTGCATGTTCCAGGAGCAAGAACCACAGCAC
 CGTGACGGTGGAGGAGGCAAGGCAGAGAAGGAGACCGAGCTGTCACTGCAAAAGGAACAGCTGCAACTG
 AAGATCATTGAGATTGAAGATGATGTTGAGAAGTGGCAAAAGGAGAAAGACCCGGATCAAGAGCTTTACCA
 CCAACGAGAAGGCGATCCTGGAGCAGAACTTCAGGGACCTGGTGGAGGAGCTGGAGAAGCAGAAGGAGGA
 AGTACGGGCTGCACTGGAGCAGCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCGTGGATGCTCTG
 GATGAGAGGGCCAAGGTGCTGCACGAGGACAAGCAGACCCGAGAGCAGCTGCACAACATCAGTGACTCGG
 TGCTGTTCTCCTGCAGGAATTTGGTGCATTGATGAGCAATTACTCTCTCCCTCCACCTTGCCACCTACCA
 TGTCTGCTGGAGGGAGAGGGGCTGGGACAGTCTCTTGGCAACTGCAAGGATGACCTGCTCAATGTGTGC
 ATGCGTCATGTTGAGAAGATGTGCAAGGCCGATTTGAGCCGCAACTTCATTGAGAGGAACCATATGGAAA
 ATGGTGGGACCATCGCTACATGAACAGCTACACCAGCAGCTATGGGAACGAGTGGAGCACGCCTGACAC
 CATGAAAAGATACTCCATGTACCTCACGCCAAGGGTGGGGGCCGGACATCCTACCAGCCATCCTCGCCT
 AGCCGCTCTCCAAGGAGACCAACCAGAAGAATTTTAAACAATCTGTATGGCACAAAAGGCAACTATACCT
 CCAGGGTCTGGGAGTACACATCCACGGTTCAGAATTCTGAGGATATGCCACGGTGAAGGCAACTCCTC
 CTTCTCCCTGAAAGGCTTTCCCTCCCTCCTCCGGAGCCAAGTTCCAAGGCCAGCCTCAGACTTGGAAA
 TCTGGCAAGCAGACTCTGCTGTCTCACTACCGCCATTCTATGTCAACAAGGGCAGCGGCATCGGATCCA
 ACGAGGCCCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_023655
Insert Size: 1764 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_023655.2](#), [NP_076144.2](#)

RefSeq Size: 2830 bp

RefSeq ORF: 1764 bp

Locus ID: 72169

UniProt ID: [Q8R2Q0](#)

Cytogenetics: 9 A5.1

Gene Summary: Plays a crucial role in the regulation of macrophage activation in response to viral or bacterial infections within the respiratory tract. Mechanistically, TRIM29 interacts with IKBKG/NEMO in the lysosome where it induces its 'Lys-48' ubiquitination and subsequent degradation. In turn, the expression of type I interferons and the production of proinflammatory cytokines are inhibited. Additionally, induces the 'Lys-48' ubiquitination of TMEM173/STING in a similar way, leading to its degradation.[UniProtKB/Swiss-Prot Function]