

## Product datasheet for **MR209159**

### Trim29 (NM\_023655) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR209159 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGGTGCCGATGCCTGCAGGAGCAATGGGGCCAGCCGGAAGCCAGGGACACCCGAGCCACCGG  
 GTCCAGCGGCAGCCTAGAGAATGGCACTAAAGCAGACAGTAAGGACACCAAGACAACCAACGGGCACAG  
 TGGGGAGGTGACAGAGGGCAAGACCCTGGGCAGTGCCCTGAAGTCAGGGGAGGGGAAGAGTGGCCTATTT  
 TCCAGCAATGAGTGGCGCAGGCCTATCATCCAGTTTGTGGAGTCTGTCGACGACAAAGGCTCCAGTTACT  
 TCAGTATGGACTCTGCGGAAGGCAGGAGTCCCCTTATGCGGGGCTCCAGTTGGGGGCTTCCAAGAAACC  
 TCCTGTGACCTTTGCTGAGAAGGGGAGCTGCGAAAGTCCATTTTCTCCGAGCCCGCAAACCCACGGTG  
 ACCATCGTGGAGCCCGGGAAGTCCGAGGAATAGCTACCCAGGGCTGACTCCAGCCTCCTGGCGCGGG  
 CAAAGTCGGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCCGTCAAGTCTG  
 CCTGGTGTCCAGGCTTCTTCTGTGAGCTGCATCTGAAGCCCCACCTGGAGGGCGCTGCCTTCCGGGAC  
 CACCAGCTGCTCGAGCCATCCGAGACTTCGAGGCCCGAAAATGTCCCTTGCACGGCAAGACTATGGAGC  
 TCTTCTGTGACAGCCAGCACCTGCATCTGTTATCTCTGCATGTTCCAGGAGCACAAGAACCACAGCAC  
 CGTGACGGTGGAGGAGCCAAGGCAGAGAAGGAGACCGAGCTGTCACTGCAAAAGGAACAGCTGCAACTG  
 AAGATCATTGAGATTGAAGATGATGTTGAGAAGTGGCAAAAGGAGAAAGACCCGGATCAAGAGCTTTACCA  
 CCAACGAGAAGGCGATCCTGGAGCAGAACTTCAGGGACCTGGTGAGGGAGCTGGAGAAGCAGAAGGAGGA  
 AGTACGGGCTGCACTGGAGCAGCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCGTGGATGCTCTG  
 GATGAGAGGGCCAAGGTGCTGCACGAGGACAAGCAGACCCGAGAGCAGCTGCACAACATCAGTACTCGG  
 TGCTGTTCTCGAGGAATTTGGTGCATTGATGAGCAATTACTCTCTCCCTCCACCTTGCCACCTACCA  
 TGTCTGCTGGAGGGAGAGGGGCTGGGACAGTCTCTTGGCAACTGCAAGGATGACCTGCTCAATGTGTGC  
 ATGCGTCATGTTGAGAAGATGTGCAAGGCCGATTTGAGCCGCAACTTCATTGAGAGGAACCATATGGAAA  
 ATGGTGGGACCATCGCTACATGAACAGCTACACCAGCAGCTATGGGAACGAGTGGAGCAGCCTGACAC  
 CATGAAAAGATACTCCATGTACCTCACGCCAAGGGTGGGGGCCGGACATCCTACCAGCCATCCTCGCT  
 AGCCGCTCTCCAAGGAGACCAACCAGAAGAATTTTAAACAATCTGTATGGCACAAGGCAACTATACT  
 CCAGGGTCTGGGAGTACACATCCACGGTTCAGAATTCTGAGGATATGCCACGGTGAAGGCAACTCCTC  
 CTTCTCCCTGAAAGGCTTCCCTCCCTCCTCCGGAGCCAAGTCCCAAGGCCAGCCTCAGACTTGAAA  
 TCTGGCAAGCAGACTCTGCTGTCTCACTACCGCCATTCTATGTCAACAAGGGCAGCGGCATCGGATCCA  
 ACGAGGCCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209159 protein sequence  
 Red=Cloning site Green=Tags(s)

MEGADACRSNGASPEARDRSPGPGSLENGTKADSKDTKTTNGHSGEVTEGKTLGSALKSGEGKSGLF  
 SSNEWRRPIIQFVESVDDKGSSYFSMDSAEGRRSPYAGLQLGASKKPPVTFAEKGELRKSIFSEPRKPTV  
 TIVEPGEVRRNSYPRADSSLLARAKSGSEEVLCDSICGNKQKAVKSCSLVCQASFCELHLKPHLEGAAFRD  
 HQLLEPIRDFEARKCPLHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQL  
 KIIIEIEDDVEKWQKEKDRIKSFTTNEKAILEQNFRDLVRELEKQKEEVRAALEQREQDAVDQVKVIVDAL  
 DERAKVLHEDKQTRQLHNI SDSVLFLQEFGALMSNYSLPPPLPTYHVLLLEGEGLGQSLGNCKDLDLNV  
 MRHVEKMCKADLSRNFIERNHMENGDRHYMNSYTSYGNWSTPDTMKRYSMYLPKGGRTSYQPSSP  
 SRLSKETNQKNFNLGYTKGNYTSRVWEYTSVQNSMPTVQGNSSFLKGFPSLLRSQVPAQPTWK  
 SGKQTLSSHYPFVYVNGSGIGSNEAP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023655

**ORF Size:** 1761 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](mailto: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](#)

**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).

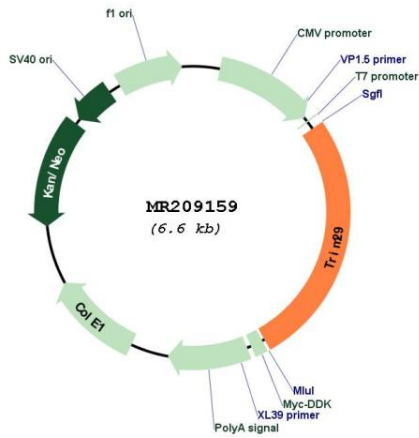
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_023655.2](#), [NP\\_076144.2](#)

**RefSeq Size:** 2830 bp  
**RefSeq ORF:** 1764 bp  
**Locus ID:** 72169  
**UniProt ID:** [Q8R2Q0](#)  
**Cytogenetics:** 9 A5.1  
**MW:** 65.8 kDa

**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]

### Product images:



Circular map for MR209159