

## Product datasheet for **MG209159**

### Trim29 (BC027353) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim29 (BC027353) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim29
Synonyms:	1110047J21Rik; 2810431N19Rik; 4732461M22Rik; AI119726
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209159 representing BC027353  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGGTGCCGATGCCTGCAGGAGCAATGGGGCCAGCCGGAAGCCAGGGACACCCGAGCCACCGG  
 GTCCAGCGGCAGCCTAGAGAATGGCACTAAAGCAGACAGTAAGGACACCAAGACAACCAACGGGCACAG  
 TGGGGAGGTGACAGAGGGCAAGACCCTGGGCAGTGCCCTGAAGTCAGGGGAGGGGAAGAGTGGCCTATTT  
 TCCAGCAATGAGTGGCGCAGGCCTATCATCCAGTTTGTGGAGTCTGTCGACGACAAAGGCTCCAGTTACT  
 TCAGTATGGACTTGGGAAGGCAGGAGTCCCCTTATGCAGGGCTCCAGTTGGGGGCTTCCAAGAAACC  
 TCCTGTGACCTTTGCTGAGAAGGGGAGCTGCGAAAGTCCATTTTCTCCGAGCCCGCAAACCCACGGTG  
 ACCATCGTGGAGCCCGGGAAGTCCGAGGAATAGCTACCCAGGGCTGACTCCAGCCTCCTGGCGCGGG  
 CAAAGTCGGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCCGTCAAGTCTG  
 CCTGGTGTGCCAGGCTTCTTCTGTGAGCTGCATCTGAAGCCCCACCTGGAGGGCGCTGCCTTCCGGGAC  
 CACCAGCTGCTCGAGCCATCCGAGACTTCGAGGCCCGAAAATGTCCCTTGCACGGCAAGACTATGGAGC  
 TCTTCTGTGACAGCCAGCACCTGCATCTGTTATCTCTGCATGTTCCAGGAGCACAAGAACCACAGCAC  
 CGTGACGGTGGAGGAGCCAAGGCAGAGAAGGAGACCGAGCTGTCACTGCAAAAGGAACAGCTGCAACTG  
 AAGATCATTGAGATTGAAGATGATGTTGAGAAGTGGCAAAAGGAGAAAGACCCGGATCAAGAGCTTTACCA  
 CCAATGAGAAGGCGATCCTGGAGCAGAAGTTCAGGGACCTGGTGAGGGAGCTGGAGAAGCAGAAGGAGGA  
 AGTACGGGCTGCACTGGAGCAGCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCGTGGATGCTCTG  
 GATGAGAGGGCCAAGGTGCTGCACGAGGACAAGCAGACCCGAGAGCAGCTGCACAACATCAGTACTCGG  
 TGCTGTTCTGCAGGAATTTGGTGCATTGATGAGCAATTAATCTCTCCCTCCACCTTGCCACCTACCA  
 TGTCTGCTGGAGGAGAGGGGCTGGGACAGTCTCTTGGCAACTGCAAGGATGACCTGCTCAATGTGTGC  
 ATGCGTCAATGTTGAGAAGATGTGCAAGGCCGATTTGAGCCGCAACTTCATTGAGAGGAACCATATGGAAA  
 ATGGTGGGACCATCGCTACATGAACAGCTACACCAGCAGCTATGGGAACGAGTGGAGCAGCCTGACAC  
 CATGAAAAGATACTCCATGTACCTCACGCCAAGGGTGGGGGCCGGACATCCTACCAGCCATCCTCGCT  
 AGCCGCTCTCCAAGGAGACCAACCAGAAGAATTTCAACAATCTGTATGGCACAAGGCAACTATACT  
 CCAGGGTCTGGGAGTACACATCCACGGTTCAGAATTCTGAGGACATGCCACGGTGAAGGCAACTCCTC  
 CTTCTCCCTGAAAGGCTTCCCTCCCTCCTCCGGAGCCAAGTCCCAAGGCCAGCCTCAGACTTGAAA  
 TCTGGCAAGCAGACTCTGCTGTCTCACTACCGCCATTCTACGTCAACAAGGGCAGCGGCATCGGATCCA  
 ACGAGGCCCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209159 representing BC027353  
 Red=Cloning site Green=Tags(s)

MEGADACRSNGASPEARDRSPGPGSLENGTKADSKDTKTTNGHSGEVTEGKTLGSALKSGEGKSGFL  
 SSNEWRRPIIQFVESVDDKSSYFSDMSAEGRRSPYAGLQLGASKKPPVTFAEKGELRKSIFSEPRKPTV  
 TIVEPGEVRRNSYPRADSSLLARAKSGSEEVLCDSICIGNKQKAVKSLVCQASFCELHLKPHLEGAAFRD  
 HQLLEPIRDFEARKCPLHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQL  
 KIIIEIEDDVEKWQKEKDRIKSFTTNEKAILEQNFRDLVRELEKQKEEVRAALEQREQDAVDQVKVIVDAL  
 DERAKVLHEDKQTRQLHNI SDSVLF LQEF GALMSNYSLPPPLPTYHVLL EGEGLGQSLGNCKDDLNV  
 MRHVEKMCKADLSRNFIERNHMENGGDHRYMNSYSSYGNEWSTPDTMKRYSMYLTPKGGGRTSYQPSSP  
 SRLSKETNQKNFNLYGTKGNYTSRVWEYTSVQNSMPTVQGNSSFLKGFPSLLRSQVPAQPQTWK  
 SGKQTL LSHYRPFYVKNKSGSIGSNEAP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">BC027353</a>, <a href="#">AAH27353</a></p>
<b>RefSeq Size:</b>	<p>2763 bp</p>
<b>RefSeq ORF:</b>	<p>1763 bp</p>
<b>Locus ID:</b>	<p>72169</p>
<b>Cytogenetics:</b>	<p>9 A5.1</p>
<b>Gene Summary:</b>	<p>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]</p>