

## Product datasheet for **MC203179**

### Ripk3 (NM\_019955) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ripk3 (NM_019955) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ripk3
Synonyms:	2610528K09Rik; AW107945; Rip3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC029210  
 GGGGGAGCGACCTGGGAAGCGGAATTCGGGGCCTGAACCTCCGTGCCTTGACCTACTGATTGTTCCCTTT  
 GCAGACCTGCCTTCTCTCAGTCCACACTCCGAGCCGTAGACGTGCGGTTTCCAGCTCCGTCTGTGCAC  
 ACATAACTCCAGGAAGCCGCTAGCTCCCAGCATGTCTTCTGTCAAGTTATGGCTACTGGTGCCTCAGC  
 GGTTCTCTGGTGAAGCGTGAAGAACTGAAGAAGCTGGAGTTTGTGGCAAGGAGGGTTCGGAGTCGTG  
 TTCCGGGCACACCACAGAACATGGAACCATGATGTAGCAGTCAAGATCGTGAACCTGAAGAAGATATCCT  
 GGGAGGTGAAGGCTATGGTTAATCTTCGTAATGAGAAGCTTCTGCTCCTGCTGGGGTCACTGAGGACCT  
 CCAGTGGGACTTCGTGTCCGGGCAGGCTCTGGTGACAAGATTCATGGAGAATGGCTCCCTCGCAGGGCTG  
 CTGCAACCCGAGTGCCCTCGGCCCTGGCCACTCCTCTGTGCGCTGCTGCAGGAAGTGGTGTGGGGATGT  
 GCTACCTACACAGCTTGAACCTCCGCTCCTGCACCCGGGACCTCAAGCCCTCTAACATTCTGCTGGATCC  
 AGAGCTCCACGCCAAGCTAGCAGATTTTGGCCTGTCCACGTTTCAGGGAGGGTCCAGTCCAGGGTCAAGG  
 TCAGGATCAGGATCCAGGGACTCTGGGGCACCCTAGCGTACTTGGACCCAGAGCTGTTATTTAATGTCA  
 ACCTGAAGGCTTCTAAAGCGAGTGTGTCTACAGCTTTGGGATCCTCGTGTGGGCAGTGTGGCTGGCAG  
 AGAAGCTGAGTTGGTAGACAAGACTTCACTAATCCGGAAACAGTGTGTGACAGGCAGAGTCGTCTCCA  
 CTGACAGAGCTGCCTCCAGGTAGCCCTGAGACTCCTGGCTTGGAAAACTGAAGGAGTTAATGATTCATT  
 GCTGGGGTTCAGTCCGAAAACAGGCCATCCTCCAGGACTGCGAACCAAAAAACCAATGAAGTTTACAA  
 TCTGGTAAAGGACAAGGTAGATGCTGTCTCCGAGGTAAGCATTATCTGTCTCAGCACAGAAGCAGC  
 GGCAGAACTTGTCTGCCAGAGAGCCAAGCCAAAGAGGCACAGAAATGGATTGCCCGAGGGAAAACCATGG  
 TTTCTAAAATGCTGGACCGCCTGCATTTGGAGGAACCTCCGGACCAAGTTCCTGGAAAATGTCTGAGAG  
 GCAAGCACAGGACACATCAGTTGGGCTGCCACACCAGCAAGGACATCTTCTGACCCCGTGGCTGGCACT  
 CCTCAGATTCACATACTTTACCTTCAGAGGCACAACACTGGGCCAGTCTTTACTGAGACTCCCGGTC  
 CTCACCCCAAAGGAATCAGGGAGATGGAAGACACGGCACTCCTTGGTATCCCTGGACCCACCGAATCC  
 AATGACAGGGCCACCGGCTCTCGTCTTCAACAAGTCTGTAAGTGCAGATTGGGAACATAACTCCTTG  
 GTAGCACCAAGAAGACTGCTCAAGTTCGGCCAAGTATGACCAAGCACAGTTTCGGCAGGGGTAGGG  
 GCTGGCAGCCCTTCCACAAGTAGACTTCAGAGAATCACTGCAAGAGCCTGAAGTGTGCCATTGAGCGTGG  
 CAATAAAAAGCACGTTTTAAGCAACCTGGACTGGCTAAGACAGTCTTGCCACTTCTGAAGCTCACAAC  
 ATTCTGTGAGGACAGTTGGACCTACACCCAACTGACTCTTGACCATCTCCTTAAAGTCAATAAACATA  
 GCATGTTAACTGTGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_019955

**Insert Size:** 1461 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](#)

**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).

<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>	<u><a href="#">BC029210</a></u> , <u><a href="#">AAH29210</a></u>
<b>RefSeq Size:</b>	1852 bp
<b>RefSeq ORF:</b>	1461 bp
<b>Locus ID:</b>	56532
<b>UniProt ID:</b>	<u><a href="#">Q9QZL0</a></u>
<b>Cytogenetics:</b>	14 C3
<b>Gene Summary:</b>	<p>Essential for necroptosis, a programmed cell death process in response to death-inducing TNF-alpha family members. Upon induction of necrosis, RIPK3 interacts with, and phosphorylates RIPK1 and MLKL to form a necrosis-inducing complex. RIPK3 binds to and enhances the activity of three metabolic enzymes: GLUL, GLUD1, and PYGL. These metabolic enzymes may eventually stimulate the tricarboxylic acid cycle and oxidative phosphorylation, which could result in enhanced ROS production.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>