

## Product datasheet for **MC203163**

### **Tlr4 (NM\_021297) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tlr4 (NM_021297) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tlr4
Synonyms:	Lps; Ly87; Ran/M1; Ras; Rasl2-8
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC029856  
 GTTCTACTCTTCAGTCTTCTAACTCCCTCCTGCGACGGGGCAGATCGATTCTAGAACAAAAACAAAAGT  
 GCGAATGCTAAGGTTGGCACTCTCACTTCTTCTTTGAATATAGTACTTGCAGAGGGGCACCCACTGGGAG  
 GGAAGAGGCAGGTGTCCCAGGGACTCTGCGCTGCCACCAGTTACAGATCGTCATGTTCTCTCATGGCCTC  
 CACTGGTTGCAGAAAAATGCCAGGATGATGCCTCCCTGGCTCCTGGCTAGGACTCTGATCATGGCACTGTT  
 CTTCTCCTGCCTGACACCGGGAAGCTTGAATCCCTGCATAGAGGTAGTTCCCTAATATTACCTACCAATGC  
 ATGGATCAGAAACTCAGCAAAGTCCCTGATGACATTCTTCTTCAACCAAGAACATAGATCTGAGCTTCA  
 ACCCTTGAAGATCTTAAAAAGCTATAGCTTCTCCAATTTTTTCAGAACTTCAGTGGCTGGATTTATCCAG  
 GTGTGAAATTGAAACAATTGAAGACAAGGCATGGCATGGCTTACACCACCTCTCAAACCTGATACTGACA  
 GGAAACCCATCCAGAGTTTTTCCCAGGAAGTTCTCTGGACTAACAAGTTTAGAGAATCTGGTGGCTG  
 TGGAGACAAAATTGGCCTCTCTAGAAAGCTTCCCTATTGGACAGCTTATAACCTTAAAGAAACTCAATGT  
 GGCTCACAAATTTATACATTCTGTAAGTTACCTGCATATTTTTCCAATCTGACGAACCTAGTACATGTG  
 GATCTTTCTTATAACTATATTCAAATATTACTGTCAATGACTTACAGTTTCTACGTGAAAAATCCACAAG  
 TCAATCTCTCTTAGACATATCTTTGAACCAATTGACTTCATTCAAGACCAAGCCTTTCAGGGAATTA  
 GCTCCATGAAGTACTCTAAGAGGTAATTTAATAGCTCAAATAAATGAAAACCTGGCTTCAAACCTG  
 GCTGGTTTACACGTCCATCGGTTGATCTTGGGAGAATTTAAAGATGAAAGGAATCTGGAATTTTTGAAC  
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 AAAAGTGGCCCTGCCAAGTCTCAGCTATCTAGATCTTAGTAGAAATGCACTGAGCTTTAGTGGTTGCTGT  
 TCTTATTCTGATTTGGGAACAAACAGCCTGAGACACTTAGACCTCAGCTTCAATGGTGCCATCATTATGA  
 GTGCCAATTTTCATGGGTCTAGAAGAGCTGCAGCACCTGGATTTTTCAGCACTCTACTTTAAAAAGGGCAC  
 AGAATTTTCAGCGTTCTTATCCCTTGAAGAGCTACTTTACCTTGACATCTTATATAACCAACAAATTT  
 GACTTCGATGGTATATTTCTTGGCTTGACCAGTCTCAACACATTAATAAATGGCTGGCAATTTCTTCAAAG  
 ACAACACCCTTTCAAATGTCTTTGCAAACACAACAACTTGACATTCTGGATCTTTCTAAATGTCAATT  
 GGAACAAATATCTTGGGGGTATTTGACACCCTCCATAGACTTCAATTATTAATATGAGTCACAACAAT  
 CTATTGTTTTGGATTCTCCATTATAACCAGCTGATTTCCCTCAGCACTCTTGATTGCAGTTTCAATC  
 GCATAGAGACATCTAAAGGAATACTGCAACATTTTCAAAGAGTCTAGCCTTCTCAATCTACTAATAA  
 TTCTGTTGCTGTATATGTGAACATCAGAAATTCCTGCAGTGGGTCAAGGACCAGAAGCAGTTCTTGGTG  
 AATGTTGAACAAATGACATGTGCAACACCTGTAGAGATGAATACCTCCTTAGTGTGGATTTAATAATT  
 CTACCTGTTATATGTACAAGACAATCATCAGTGTGTCAGTGATCAGTGTGATTGTTGGTATCCACTGTAGC  
 ATTTCTGATATACCACTTCTATTTTACCTGATACTTATTGCTGGCTGTAAAAAGTACAGCAGAGGGAGAA  
 AGCATCTATGATGCATTTGTGATCTACTCGAGTCAGAATGAGGACTGGGTGAGAAATGAGCTAGTAAAGA  
 ATTTAGAAGAAGGAGTGGCCCGCTTTCACCTCTGCCTTCACTACAGAGACTTTATTCCTGGTGTAGCCAT  
 TGCTGCCAACATCATCCAGGAAGGCTTCCACAAGAGCCGGAAGGTTATTGTTGGTAGTGTCTAGACACTTT  
 ATTCAGAGCCGTTGGTGTATCTTTGAATATGAGATTGCTCAAACATGGCAGTTTCTGAGCAGCCGCTCTG  
 GCATCATCTTTCATTGCTTGAAGGTTGAGAAGTCCCTGCTGAGGCAGCAGGTGGAATTGTATCGCCT  
 TCTTAGCAGAAACACCTACCTGGAAATGGGAGGACAATCCTCTGGGGAGGCACATCTTCTGGAGAAGACTT  
 AAAAAAGGCCCTATTGGATGGAAAAGCCTCGAATCCTGAGCAAACAGCAGAGGAAGAACAAGAAACGGCAA  
 CTTGGACCTGAGGAGAACAAAACCTGAGGCTAAACCCAGTCTGTTTGAATTAATAAATGCTACAGCT  
 CACCTGGGGCTCTGCTATGGACCGAGAGCCATGGAACACATGGCTGCTAAGCTATAGCATGGACCTTAC  
 CGGGCAGAAAGGAGTAGCACTGATGCCTTCTTTCCAGGGATATGAATTACCTAACTCAGGAAAAGAAAC  
 ATAATCAAGAATCTTTACCTTTAACTGAAGGAGAAGAGGCTAAGGCCTAGTGAGAACAGAAAGGAGAAC  
 CAGTCTTCACTGGGCCTTTTGAATACAAGCCATGTCATGTTCTGTGTTTCAGTTGCTTTAGAAGAGTATT  
 GATAGTTTCAACTGAAGTAAAGGTTTCTTACTTTCCCTTTTTTCTACTGAATGCAATATTAATAGCTC  
 TTTTTGAGAGTCTCATTCCAAAAAATAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_021297  
**Insert Size:** 2508 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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>	<a href="#">BC029856</a> , <a href="#">AAH29856</a>
<b>RefSeq Size:</b>	3187 bp
<b>RefSeq ORF:</b>	2508 bp
<b>Locus ID:</b>	21898
<b>UniProt ID:</b>	<a href="#">Q9QUK6</a>
<b>Cytogenetics:</b>	4 34.66 cM
<b>Gene Summary:</b>	This gene belongs to the evolutionarily-conserved Toll-like receptor family, whose members are type-1 transmembrane proteins that are involved in innate immunity. Toll-like receptors are characterized by an extracellular leucine-rich repeat domain that functions in ligand recognition and an intracellular toll/interleukin-1 receptor-like domain that is crucial for signal transduction. The receptor encoded by this gene mediates the innate immune response to bacterial lipopolysaccharide, a major component of the outer membrane of Gram-negative bacteria, through synthesis of pro-inflammatory cytokines and chemokines. In addition, this protein can recognize other pathogens from Gram-negative and Gram-positive bacteria as well as viral components. Mice deficient in this gene display a number of immune response-related phenotypes including hyporesponsiveness to bacterial lipopolysaccharide and increased levels of respiratory syncytial virus compared to controls. [provided by RefSeq, Sep 2015]