

Product datasheet for **MC204742**

Tlr6 (NM_011604) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr6 (NM_011604) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tlr6
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC055366
AAGAGGTAATCCGAAGGAAGTCTTGGTAAGTAAGAAGGCTTTTCTGGATTTTCAAATTACTGCGTTGAT
ATTTCAATCGAGAAAGAAAATGGTACCCTCAGTCTGGAAATAGAGCTTGGATCCAAGTAAAAATGCTGT
GAAGAATGGTAAAGTCCCTCTGGGATAGCTCTGCAACATGAGCCAAGACAGAAAACCCATCGTGGGGAG
TTTCCACTTTGTTGCGCCCTGGCCTTAATAGTCGGAAGCATGACCCCGTTCTCTAATGAACTTGAGTCT
ATGGTAGACTATTCAAACAGGAACCTTACTCATGTCCCCAAAGACCTGCCACCAAGAACAAAAGCCCTGA
GTCTGTCTCAAAACTCTATATCTGAGCTTCGGATGCCTGATATCAGCTTTCTGTGAGAGCTGAGAGTTCT
GAGACTCTCCACAACAGGATACGGAGCCTTGATTTCCATGTATTCTTGTCAATCAGGACTTAGAATAC
CTGGATGTCTCACACAATCGGTTGCAAAACATCTCTTGCTGCCCTATGGCGAGCCTGAGGCATCTAGACC
TCTCATTCAATGACTTTGATGTAAGTGCCTGTGTGTAAGGAATTTGGCAACCTGACGAAGCTGACTTTCT
GGGATTAAGTGTGCAAAGTCCGACAAGTGGATCTGCTCCAGTTGCTCACTTGCATCTAAGCTGCATT
CTTCTGGACTTAGTGAGTTATCATATAAAAGGCGGGGAAACAGAAAGTCTTCCAGATTTCCCAATACCACCG
TTCTCCATTTGGTCTTTCATCCAAATAGCTTGTCTGTTCAGTGAACATGTCTGTAACGCTTTAGG
ACATTTACAAGTGAATATTAATGAATGATGAAAAGTCAAGGTTAATGACATTTTATCAGAA
CTCACCAGAGTCCAACCTTATTGAATGTGACCCTCCAGCACATAGAAACAACCTGGAAGTCTCGGTTA
AACTTTTCCAATCTTTTGGCCCGACCGTGGAGTACCTCAATTTTACAACCTAACGATAACTGAGAG
AATCGACAGGGAAGAATTTACTTACTCGGAGACAGCACTGAAGTCACTGATGATAGAGCAGTCAAAAAC
CAAGTGTCTCTTTTCAAAGGAGGCGCTATACTCGGTGTTTGTGAGATGAACATCAAGATGCTCTCTA
TCTCAGACACCCCTTTCATCCACATGGTGTGCCCGCCATCCCAAGCTCATTACATTTCTGAACTTTAC
CCAGAATGTTTTACTGACAGTGTTTTTCAAGGCTGTCCACCTTAAAGAGATTGCAGACACTTATCTTA
CAAAGGAATGGTTTGAAGAACTTTTTAAAGTAGCTCTCATGACTAAGAATATGCTCTCTGAAAACCT
TGGATGTTAGTTTGAATCTTTGAACTCTCATGCATATGACAGGACATGCGCCTGGGCTGAGAGCATATT
GGTGTGAATTTGCTTTCGAATATGCTTACAGGCTCTGTCTTCCAGATGCTTACCTCCCAAGTCAAGGTC
CTTGACCTTCAACAACAACAGGATAATGAGCATCCCTAAAGATGTCACCCACCTGCAGGCTTTCAGGAAC
TCAATGTAGCATCCAACCTTAACTGACCTTCTGGGTGTTGGGCTTTCAGCAGCCTTTCTGTGCTGGT
CATCGACCATAACTCAGTTTCCCATCCCTCTGAGGATTTCTTCCAGAGCTGTGAGAATATTAGATCCCTA
ACAGCGGGAAACAACCCATTCCAATGCACATGTGAGCTGAGGGACTTTGTCAAGAACATAGGCTGGGTAG
CAAGAGAAGTGGTGGAGGCTGGCCTGACTCTTACAGGTGTGACTACCCAGAAAGCTCTAAGGGAAGTGC
ACTGAGGGACTTCCACATGTCTCCACTGTCTGTGATACTGTTCTGCTGACTATCACCATCGGGCCACT
ATGCTGGTGTGCTGCTGACTGGGGCTTCTCTGTCTCTACTTTGACCTGCCCTGGTATGTGAGGATGC
TGTGTCAGTGGACACAGACCAGGCACAGGGCCAGGCACATCCCTTAGAGGAACTCCAGAGAAACCTCCA
GTTCCATGCTTTTGTCTCATACAGTGTGAGCATGATTCTGCCTGGGTGAAGAACGAATTAACCCAACTA
GAGAAAGATGACATCCGGGTTTGCCTCCATGAGAGGAACTTTGTCCCTGGCAAGAGCATTGTGGAGAACA
TCATCAATTTTATTGAGAAGAGTTACAAGGCCATCTTTGTGCTGTCTCCCACTTCCATCCAGAGTGAAGT
GTGCCATTATGAACTCTATTTTGCCATCATAATCTTCCATGAAGGCTCTGATAACTTAACTCTCATC
TTGCTGGAACCCATTCTACAGAACAACATTTCCAGTAGATACCACAAGCTGCGGGCTCTCATGGCACAGC
GGACTTACTTGAATGGCCTACTGAGAAGGGCAACGTTGGGCTGTTTTGGGCCAACCTTAGAGCTTCAAT
TATTATGAAGTTAGCCTTAGTCAATGAGGATGATGTGAAAACCTTGAACCTTGGGTTTCTAACTTAATAAA
CTGTCAACCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_011604

Insert Size: 2421 bp

OTI Disclaimer: 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).

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: [BC055366](#), [AAH55366](#)

RefSeq Size: 2625 bp

RefSeq ORF: 2421 bp

Locus ID: 21899

UniProt ID: [Q9EPW9](#)

Cytogenetics: 5 33.54 cM

Gene Summary: Participates in the innate immune response to Gram-positive bacteria and fungi. Specifically recognizes diacylated and, to a lesser extent, triacylated lipopeptides (PubMed:19931471). In response to diacylated lipopeptides, forms the activation cluster TLR2:TLR6:CD14:CD36, this cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a lipid-raft dependent pathway. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR2. In complex with TLR4, promotes sterile inflammation in monocytes/macrophages in response to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloid-beta 42-binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion (PubMed:20037584, PubMed:23812099).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. **Sequence Note:** The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.