

Product datasheet for **MC221571**

Tlr2 (NM_011905) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr2 (NM_011905) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tlr2
Synonyms:	Ly105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221571 representing NM_011905
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTACGAGCTCTTTGGCTCTTCTGGATCTTGGTGGCCATAACAGTCTCTTCAGCAAACGCTGTCTG
 CTCAGGAGTCTCTGTATGTGATGCTTCTGGGGTGTGTATGGCCGCTCCAGGTCTTTCACCTCTATTCC
 CTCGGACTCACAGCAGCCATGAAAAGCCTTGACCTGTCTTTCAACAAGATCACCTACATTGGCCATGGT
 GACCTCCGAGCGTGTGCGAACCTCCAGGTTCTGATTTTGAAGTCCAGCAGAATCAATACAATAGAGGGAG
 ACGCCTTTTATTCTCTGGGCAGTCTTGAACATTTGGATTGTCTGATAATCACCTATCTAGTTTATCTTC
 CTCCTGGTTCGGGCCCTTCTCTTTGAAATACTTAACTTAATGGGAAATCCTTACCAGACACTGGGG
 GTAACATCGCTTTTCCCAATCTCACAATTTACAAACCCTCAGGATAGGAAATGTAGAGACTTTCAGTG
 AGATAAGGAGAATAGATTTTGTGGGCTGACTTCTCTCAATGAACTTGAATTAAGGCATTAAGTCTCCG
 GAATTATCAGTCCAAAGTCTAAAGTCGATCCGCGACATCCATCACCTGACTCTTCACTTAAGCGAGTCT
 GCTTTCCTGCTGGAGATTTTGCAGATATTCTGAGTTCTGTGAGATATTTAGAACTAAGAGATACTAACT
 TGGCCAGGTTCCAGTTTTACCCTGCCCCTAGATGAAGTCAGCTCACCGATGAAGAAGCTGGCATTCCG
 AGGCTCGGTTCTCACTGATGAAAGCTTTAACGAGCTCCTGAAGCTGTTGCGTTACATCTTGGAACTGTGCG
 GAGGTAGAGTTCGACGACTGTACCCTCAATGGGCTCGGCGATTTCAACCCTCGGAGTCAGACGTAGTGA
 GCGAGCTGGGTAAGTAGAAACAGTCACTATCCGGAGGTTGCATATCCCCAGTTCTATTTGTTTTATGA
 CCTGAGTACTGTCTATCCCTCCTGGAGAAGGTGAAGCGAATCACAGTAGAGAACAGCAAGGCTTCCCTG
 GTTCCCTGCTCGTTCTCCAGCATTAAAATCATTAGAATCTTAGACCTCAGCGAAAATCTGATGGTTG
 AAGAATATTTGAAGAATCAGCCTGTAAGGGAGCCTGGCCTCTACAAACCTTAGTTTTGAGCCAGAA
 TCAATTTGAGATCAATGCAAAAAACAGGAGATTTTGTGACTCTGAAAAACCTGACCTCCCTTGACATC
 AGCAGGAACACTTTTCATCCGATGCCCGACAGCTGTGAGTGGCCAGAAAAGATGCGCTTCTGAATTTGT
 CCAGTACAGGGATCCGGGTGGTAAAAACGTGCATTCTCAGACGCTGGAGGTGTTGGATGTTAGTAACAA
 CAATCTTGACTCATTTTCTTTGTTCTTGCCTCGGCTGCAAGAGCTCTATATTTCCAGAAAATAGCTGAAA
 ACACTCCAGATGCTTCGTTGTTCCCTGTGTTGCTGGTCATGAAAATCAGAGAGAATGCAGTAAGTACTT
 TCTCTAAAGACCAACTTGGTTCTTTTCCAAACTGGAGACTCTGGAAGCAGGCGACAACCACTTTGTTG
 CTCCTGCGAACTCTATCTTTACTATGGAGACGCCAGCTCTGGCTCAAATCCTGGTTGACTGGCCAGAC
 AGCTACCTGTGTGACTCTCCGCCTCGCCTGCACGCCACAGGCTTCAGGATGCCCGGCCCTCCGTCTTGG
 AATGTCACCAGGCTGCACTGGTGTCTGGAGTCTGCTGTGCCCTTCTCCTGTTGATCTTGCTCGTAGGTGC
 CCTGTGCCACCATTTCCACGGGCTGTGGTACCTGAGAATGATGTGGGCGTGGCTCCAGGCCAAGAGGAAG
 CCCAAGAAAGCTCCCTGCAGGGACGTTTGTATGATGCCTTTGTTTCTACAGTGAGCAGGATCCCATT
 GGGTGGAGAACCTCATGGTCCAGCAGCTGGAGAATCTGACCCGCCCTTAAAGCTGTGTCTCCACAAGCG
 GGACTTCGTTCCGGGCAATGGATCATTGACAACATCATCGATTCCATCGAAAAGAGCCACAAAACCTGTG
 TTCGTGCTTTCTGAGAACTTCGTACGGAGCGAGTGGTGAAGTACGAACCTGGACTTCTCCCACTTCAGGC
 TCTTTGACGAGAACACGACGCGCCATCCTTGTGTTGCTGGAGCCATTGAGAGGAAAGCCATTTCCCA
 GCGCTTCTGCAAACTGCGCAAGATAATGAACACCAAGACCTACCTGGAGTGGCCCTTGGATGAAGGCCAG
 CAGGAAGTGTTTTGGGTAATCTGAGAACTGCAATAAAGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_011905
Insert Size: 2355 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:	<ol style="list-style-type: none">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:	BC014693 , AAH14693
RefSeq Size:	3046 bp
RefSeq ORF:	2355 bp
Locus ID:	24088
UniProt ID:	Q9QUN7
Cytogenetics:	3 E3

Gene Summary:

Cooperates with LY96 to mediate the innate immune response to bacterial lipoproteins and other microbial cell wall components. Cooperates with TLR1 or TLR6 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (By similarity) (PubMed:15690042). May also promote apoptosis in response to lipoproteins (By similarity). Forms activation clusters composed of several receptors depending on the ligand, these clusters trigger signaling from the cell surface and subsequently are targeted to the Golgi in a lipid-raft dependent pathway. Forms the cluster TLR2:TLR6:CD14:CD36 in response to diacylated lipopeptides and TLR2:TLR1:CD14 in response to triacylated lipopeptides (By similarity). Recognizes M.tuberculosis major T-antigen EsxA (ESAT-6) which inhibits downstream MYD88-dependent signaling (PubMed:17486091). Acts as the major receptor for M.tuberculosis lipoproteins LprA, LprG, LpqH and PhoS1 (pstS1), in conjunction with TLR1 and for some but not all lipoproteins CD14 and/or CD36. The lipoproteins act as agonists to modulate antigen presenting cell functions in response to the pathogen (PubMed:19362712). Recombinant MPT83 from M.tuberculosis stimulates secretion of cytokines (TNF-alpha, IL-6 and IL-12p40) by mouse macrophage cell lines in a TLR2-dependent fashion, which leads to increased host innate immunity responses against the bacterium (PubMed:22174456). Lung macrophages which express low levels of TLR2 respond poorly to stimulation by M.tuberculosis LpqH (PubMed:19362712). Required for normal uptake of M.tuberculosis, a process that is inhibited by M.tuberculosis LppM (PubMed:27220037). Interacts with TICAM2 (By similarity).[UniProtKB/Swiss-Prot Function]