

Product datasheet for **MC221701**

Tlr1 (NM_030682) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr1 (NM_030682) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tlr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221701 representing NM_030682
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTAAACCAATTCCTCATCTTCTACTGTATCATTGTTTTAGGACTGACACTTATGAAAATCCAAT
 TATCTGAGGAATGTGAGCTTATCATAAAGAGGCCAAACGCAAACCTTACCAGAGTGCCCAAGGACCTACC
 CTTGCAAACAACACTTTAGATCTATCAGAAAACAATATATCTGAGCTTCAGACTTCTGACATCCTCTCA
 TTGTCCAAGCTGAGGGTCTGATAATGTCTACAACAGACTCCAGTATCTTAATATCAGTGTTCCTCAAT
 TCAACACAGAGCTGGAATATTTGGATTTGTCCACAATGAGCTAAAGGTGATCTTGTGCCACCAACAGT
 CAGCCTCAAGCATTGGACCTCTCTTTAATGCCTTTGATGCCCTGCCTATATGCAAAGAATTTGGCAAC
 ATGTCCCAACTACAGTTCCTGGGTTGAGCGTTCTCGGGTACAAAGTCAAGTGTGAGCTGATTGCTC
 ATTTGAACATCAGTAAGTTCCTGGTGTAGGAGATGCTTATGGGAAAAAGAAGACCCCGAATCTCT
 TCGGCACGTTAGCACTGAGACTCTGCATATTGTTTTCCCGTCGAAAAGAGAATTCGGTTTTCTTCTGGAT
 GTGTCCGTGAGCACTACGATCGGTTTGGAACTGTCTAACATCAAGTGTGTGCTTGAAGACCAGGGCTGCT
 CTTATTTCTTACGTGCTTTGTCAAAGCTTGAAAAGAATCTGAAGCTCTCAATCTTACCCTGAACATGT
 GGAAACAACGTGGAAATTCCTTCAATATCCTCCAGATAGTTTGGCATAACGACGTCAAATATTTCTCA
 ATTTCAAATGTGAAGCTACAAGTCAACTTGCCTCAGGATGTTCAATATTCTGACACTTCTCTGAAGG
 CTTTGTGATACATCAAGTTGCTACTGATGTCTCAGCTTCCCCAAAGTTACATATACAGTATCTTTGC
 CAATATGAACATCCAAAACCTTTACAATGTCTGGAACACACATGGTCCACATGCTGTGCCCGTCCCAAGT
 AGCCCATTTCTGCATGTGGACTTTACAGATAACCTTTAACAGACATGGTTTTTAAAGACTGTAGAACT
 TAGTTAGATTGAAAACACTTAGTTTACAAAAGAATCAGTTAAAAACCTTGAGAATATAATCCTCACATC
 TGCAAAGATGACATCCCTACAAAACCTAGACATTAGCCAGAATTCCTAAGGTACAGCGATGGGGGAATC
 CCATGCGCCTGGACCCAGAGTTTGTAGTTTTAAATTTGTCTTCGAATATGCTTACAGGCTCTGTCTTCA
 GATGCTTACCTCCCAAAGTCAAGGTCTTGACCTTACAACAACAGGATAATGAGCATCCCTAAAGATGT
 CACCCACCTGCAGGCTTTGCAGGAACCTCAATGTAGCATCCAACCTCCTTAACTGACCTTCTGGGTGCGGG
 GCCTTCAGCAGCCTTTCTGTGCTGGTCTCGACCATAACTCAGTTTCCCATCCCTCTGAGGATTTCTTCC
 AGAGCTGTCAGAATATTAGATCCCTAACAGCGGGAAACAACCCATTCCAATGCACATGTGAGCTGAGGGA
 CTTTGTCAAGAACATAGGCTGGGTAGCAAGAGAAGTGGTGGAGGGCTGGCCTGACTTACAGGTGTGAC
 TACCCAGAAAGCTCTAGGGGAACCTGCATGAGGGACTTCCACATGTCTCCACTATCCTGTGATACTGTT
 TGCTGACTGTACCATCGGGGCCACTATGCTGGTGTGGCTGCTACTGGGGCTTCTCTGTCTCTACTT
 TGACCTGCCCTGGTATGTGAGGATGCTGTGTCAGTGGACACAGACCAGGCACAGGGCCAGGCACATCCCC
 TTAGAGGAACTCCAGAGAAACCTCCAGTTCATGCTTTTGTCTCATACAGTGGGCATGATTTGCCTGGG
 TGAAGAACGAATTACTACCCAACCTAGAGAAAGATGACATCCAGATTTGCCTCCATGAGAGGAACCTTGT
 CCCTGGCAAGAGCATTGTGGAGAACATCATCAATTTCAATTGAGAAGAGTTACAAGTCCATCTTTGTGCTG
 TCTCCCACTTCCATCCAGAGTGTGGTGTGCTTATGAACTCTATTTGCCCATCACAATCTCTTCCATG
 AAGGCTCTGATAACTTAATCCTCATCTTGTGTCACCCATTCCCCAGTACTCCATCCCTACCAATTACCA
 CAAGCTCAAAACTCTCATGTACGAAGGACCTATCTGGAATGGCCACAGAGAAGAACAAGCATGGACTT
 TTTTGGGCAAACCTAAGAGCATCCATTAATGTTAAGCTGGTTAACCCAGGCAGAAGGAACGTGTTACACAC
 AGCAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_030682
Insert Size: 2388 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:	NM_030682.2 , NP_109607.1
RefSeq Size:	2721 bp
RefSeq ORF:	2388 bp
Locus ID:	21897
UniProt ID:	Q9EPQ1
Cytogenetics:	5 33.53 cM
Gene Summary:	<p>Participates in the innate immune response to microbial agents. Specifically recognizes diacylated and triacylated lipopeptides. Cooperates with TLR2 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Forms the activation cluster TLR2:TLR1:CD14 in response to triacylated lipopeptides, 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 (By similarity). Acts as a coreceptor for M.tuberculosis lipoproteins LprG, LpqH and PhoS1 (pstS1), in conjunction with TLR2 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).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. Variants 1 and 2 encode the same protein. 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>