

Product datasheet for **MC228948**

Tlr1 (NM_001276445) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr1 (NM_001276445) 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: >MC228948 representing NM_001276445
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTAAACCAATTCCTCATCTTCTACTGTATCATTGTTTTAGGACTGACACTTATGAAAATCCAAT
 TATCTGAGGAATGTGAGCTTATCATAAAGAGGCCAAACGCAAACCTTACCAGAGTGCCCAAGGACCTACC
 CTTGCAAACAACACTTTAGATCTATCAGAAAACAATATATCTGAGCTTCAGACTTCTGACATCCTCTCA
 TTGTCCAAGCTGAGGGTCTGATAATGCCTACAACAGACTCCAGTATCTTAATATCAGTGTTCCTCAAT
 TCAACACAGAGCTGGAATATTTGGATTTGTCCACAATGAGCTAAAGGTGATCTTGTGCCACCAACAGT
 CAGCCTCAAGCATTGGACCTCTCTTTAATGCCTTTGATGCCCTGCCTATATGCAAAGAATTTGGCAAC
 ATGTCCCAACTACAGTTCCTGGGTTGAGCGTTCTCGGGTACAAAGTCAAGTGTGAGCTGATTGCTC
 ATTTGAACATCAGTAAGTTCCTGGTGTAGGAGATGCTTATGGGAAAAAGAAGACCCCGAATCTCT
 TCGGCACGTTAGCACTGAGACTCTGCATATTGTTTTCCCGTCGAAAAGAGAATTCGGTTTTCTTCTGGAT
 GTGTCCGTGAGCACTACGATCGGTTTGGAACTGTCTAACATCAAGTGTGTGCTTGAAGACCAGGGCTGCT
 CTTATTTCTTACGTGCTTTGTCAAAGCTTGAAAAGAATCTGAAGCTCTCAAATCTTACCCTGAACATGT
 GGAAACAACGTGGAAATTCCTTCAATATCCTCCAGATAGTTTGGCATAACGACGTCAAATATTTCTCA
 ATTTCAAATGTGAAGCTACAAGTCAACTTGCCTCAGGATGTTCAATATTCTGACACTTCTCTGAAGG
 CTTTGTGATACATCAAGTTGCTACTGATGTCTCAGCTTCCCCAAAGTTACATATACAGTATCTTTGC
 CAATATGAACATCCAAAACCTTTACAATGTCTGGAACACACATGGTCCACATGCTGTGCCCGTCCCAAGT
 AGCCCATTTCTGCATGTGGACTTTACAGATAACCTTTAACAGACATGGTTTTTAAAGACTGTAGAACT
 TAGTTAGATTGAAAACACTTAGTTTACAAAAGAATCAGTTAAAAACCTTGAGAATATAATCCTCACATC
 TGCAAAGATGACATCCCTACAAAACACTAGACATTAGCCAGAATTCCTAAGGTACAGCGATGGGGGAATC
 CCATGCGCCTGGACCCAGAGTTTGTAGTTTTAAATTTGTCTTGAATATGCTTACAGGCTCTGTCTTCA
 GATGCTTACCTCCCAAAGTCAAGGTCTTGACCTTACAACAACAGGATAATGAGCATCCCTAAAGATGT
 CACCCACCTGCAGGCTTTGCAGGAACCTCAATGTAGCATCCAACCTCCTTAACTGACCTTCTGGGTGCGGG
 GCCTTCAGCAGCCTTTCTGTGCTGGTCTCGACCATAACTCAGTTTCCCATCCCTCTGAGGATTTCTTCC
 AGAGCTGTCAGAATATTAGATCCCTAACAGCGGGAAACAACCCATTCCAATGCACATGTGAGCTGAGGGA
 CTTTGTCAAGAACATAGGCTGGGTAGCAAGAGAAGTGGTGGAGGGCTGGCCTGACTTACAGGTGTGAC
 TACCCAGAAAGCTCTAGGGGAAGTGCAGTGGGACTTCCACATGTCTCCACTATCCTGTGATACTGTTT
 TGCTGACTGTACCATCGGGGCCACTATGCTGGTGTGGCTGTACTGGGGCTTCTCTGTCTCTACTT
 TGACCTGCCCTGGTATGTGAGGATGCTGTGTGACAGTGGACACAGACCAGGCACAGGGCCAGGCACATCCCC
 TTAGAGGAACTCCAGAGAAACCTCCAGTTCATGCTTTTGTCTCATACAGTGGGCATGATTTGCCTGGG
 TGAAGAACGAATTACTACCCAACCTAGAGAAAGATGACATCCAGATTTGCCTCCATGAGAGGAACCTTTGT
 CCCTGGCAAGAGCATTGTGGAGAACATCATCAATTTCAATTGAGAAGAGTTACAAGTCCATCTTTGTGCTG
 TCTCCCACTTCCATCCAGAGTGTGGTGTGATTAAGTCTATTTGCCCATCACAATCTCTTCCATG
 AAGGCTCTGATAACTTAATCCTCATCTTGTGTCACCCATTCCCCAGTACTCCATCCCTACCAATTACCA
 CAAGCTCAAAACTCTCATGTACGAAGGACCTATCTGGAATGGCCACAGAGAAGAACAAGCATGGACTT
 TTTTGGGCAAAACCTAAGAGCATCCATTAATGTTAAGCTGGTTAACCCAGGCAGAAGGAACGTGTTACACAC
 AGCAATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001276445
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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001276445.1</u> , <u>NP_001263374.1</u>
RefSeq Size:	3021 bp
RefSeq ORF:	2388 bp
Locus ID:	21897
UniProt ID:	<u>Q9EPQ1</u>
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 (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 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.</p>