

Product datasheet for **SC118088**

TLR1 (NM_003263) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR1 (NM_003263) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLR1
Synonyms:	CD281; rsc786; TIL; TIL. LPRS5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003263, the custom clone sequence may differ by one or more nucleotides

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ATGACTAGCATCTCCATTTTCCATTATCTTCATGTTAATACTTCAGATCAGAATACAATTATCTGAAG
AAAGTGAATTTTATGTTGATAGGTCAAAAACGGTCTCATCCACGTTCTAAAGACCTATCCCAGAAAAAC
AACAACTTAAATATATCGCAAAATATATATCTGAGCTTTGGACTTCTGACATCTTATCACTGTCAAAA
CTGAGGATTTTGATAATTTCTCATAATAGAATCCAGTATCTTGATATCAGTGTTTTCAAATTCACCAGG
AATTGGAATACTTGATTGTCCACAACAAGTTGGTGAAGATTTCTGCCACCCTACTGTGAACCTCAA
GCCTTGACCTGTCATTTAATGCATTTGATGCCCTGCCTATATGCAAAGAGTTTGGCAATATGTCTCAA
CTAAAATTTCTGGGGTTGAGCACCACACTTAGAAAAATCTAGTGTGCTGCCAATTGCTCATTTGAATA
TCAGCAAGGTCTTGCTGGTCTTAGGAGAGACTTATGGGAAAAAGAAGACCCTGAGGGCCTTCAAGACTT
TAACACTGAGAGTCTGCACATTGTGTTCCCAACAACAAGAATCCATTTTATTTGGATGTGTCAGTC
AAGACTGTAGCAAATCTGGAATCTAATATCAAATGTGTGCTAGAAGATAACAATGTTCTTACTTCC
TAAGTATTCTGGCGAACTTCAAACAAATCCAAGTTATCAAATCTTACCTTAAACAACATTGAAACAAC
TTGGAATCTTTTCAATAGGATCCTCCAGCTGGTTTGGCATACAACCTGTATGGTATTTCTCAATTTCAAAC
GTGAAGCTACAGGTGAGCTGGACTTCAGAGATTTTGATTATTCTGGCACTTCTTGAAGCCTTGCTCA
TACACCAAGTTGTGACGATGTGTTTCGGTTTTCCGCAAAGTTATATCTATGAAATCTTTTGAATATGAA
CATCAAAAATTTACAGTGTCTGGTACACGCATGGTCCACATGCTTTGCCCATCAAAAATAGCCCGTTC
CTGCATTTGGATTTTCCAATAATCTCTTAACAGACACGGTTTTTGAATTTGTTGGGCACCTTACTGAGT
TGGAGACACTTATTTTACAAATGAATCAATTAAGAAGCTTTCAAAAATAGCTGAAATGACTACACAGAT
GAAGTCTCTGCAACAATTGGATATTAGCCAGAATCTGTAAAGCTATGATGAAAAGAAAGGAGACTGTTCT
TGGACTAAAAGTTTATTAAGTTTAAATATGTCTTCAAATATACTTACTGACACTATTTTTCAGATGTTTAC
CTCCAGGATCAAGGTACTTGATCTTACAGCAATAAAAATAAAGAGCATTCTTAAACAAGTCGTAAGAACT
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AGCCTTTCTGTATTGATCATTGATCACAATTCAGTTTCCACCCATCGGCTGATTTCTTCCAGAGCTGCC
AGAAGATGAGGTCAATAAAGCAGGGGACAATCCATTCCAATGTACCTGTGAGCTAGGAGAATTTGTCAA
AAATATAGACCAAGTATCAAGTGAAGTGTAGAGGGCTGGCTGATTTCTATAAGTGTGACTACCCGGAA
AGTTATAGAGGAACCCTACTAAGGACTTTCACATGTCTGAATTATCCTGCAACATAACTCTGCTGATCG
TCACCATCGTTGCCACCATGCTGGTGTGGCTGTGACTGTGACCTCCCTCTGCAGCTACTGGATCTGCC
CTGGTATCTCAGGATGGTGTGCCAGTGGACCCAGACCCGGCGCAGGGCCAGGAACATACCCTTAGAAGAA
CTCCAAAGAAATCTCCAGTTTATGCAATTTATTTATATAGTGGGCACGATTTCTTCTGGGTGAAGAATG
AATTATTGCCAAACCTAGAGAAAGAAGGTATGCAGATTTGCCTTCATGAGAGAACTTTGTTCTGGCAA
GAGCATTGTGGAAAAATCATCACCTGCATTGAGAAGAGTTACAAGTCCATCTTTGTTTTGTCTCCCAAC
TTTGTCCAGAGTGAATGGTGCCATTATGAACTCTACTTTGCCATCACAATCTCTTTTCAATGAAGGATCTA
ATAGCTTAATCCTGATCTTGCTGGAACCCATCCGCAGTACTCCATTCTAGCAGTTATCACAAGCTCAA
AAGTCTCATGGCCAGGAGACTTATTTGGAATGGCCAAAGGAAAAGAGCAAAACGTGGCCTTTTTTGGGCT
AACTTAAGGGCAGCCATTAATATTAAGCTGACAGAGCAAGCAAAGAAATAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003263 unedited
TCACAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAACAGA
CAAGCAGGTTGTCTTGGGTCTTCATGAACACTAATAGGGGTACCAGGCCCTTTCCTCGT
TAGAAGAAATCAGGATAACAAAGGCATATTGGGCACCCCTACAAAAGGAATCTGTATCTG
TATCAAGATGATCTGAAGAACAGCTTCTACCTTAGGAATGTCTAGTGTCCAAAATGAC
TAGCATCTTCCATTTTGGCATTATCTTCATGTTAATACTTCAGATCAGAATACAATTATC
TGAAGAAAGTGAATTTTTAGTTGATAGGTCAAAAACGGTCTCATCCACGTTCCATAAAGA
CCTATCCCAGAAAACAACAATCTTAAATATATCGCAAAATTATATATCTGAGCTTTGGAC
TTCTGACATCTTATCACTGTCAAAACTGAGGATTTTGATAATTTCTCATATAAGAAATCCA
GTATCTTGATATCAGTGTTTTCAAATTCACCAGGAATTGGAATACTTGGATTTGCCCA
CAACAAGTTGGTGAAGATTTCTTGCCACCCTACTGTGAACCTCAAGCACTTGGACCTGTC
ATTTAATGCATTTGATGCCCTGCCTATATGCAAAGAGTTGGCAATATGTCTCAACTAAN
NATTCTGGNGTTGAGCACCACACTTTAGAAAATCTAGTGTGCTGCCAATTGCTCATT
GAATATCAGNCAAGTCTTGCTGGTCTTANGAGAGAACTATGGNGAANAAGAAGACCCTN
GAGGCCCTCAAGAACTAACACTTGAGAGTCTGCACATTGTGTCCCCACCAACAAG
AATTCCATCTTATTTGGATGTGTCAGTCAAGACTGTAGCAAATCTGGAACCTATCTATT
ATCAAAGTGTGCTAGAAGAATACAATGGTCTACTTCCCTAGTATTCTGGCGAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003263 unedited
CGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACATTTTATTAATTTTTAA
TACCACATATAAATGGTGAAGTGGGACCCGAAGGTATATATTTTTACCTACATCATAAC
TCACAATTGTGTTTACATCTATGCTGATGCAAAAATAAGTCATTGTTGGAACCTCCAAA
GCAGCAATATCAACAGGAGGAATTTTTCACTTGATGTGAATCTATTTCTTTGCTTGC
TCTGTGAGCTTAATTAATGGCTGCCCTTAAGTTAGCCCAAAAAGGCCACGTTTGCTC
TTTTCTTGGGCCATTCCAAATAAGTCCTCCTGGCCATGAGACTTTTGTGCTTGATAA
CTGCTAGGAATGGAGTACTGAGGAATGGGTTCCAGCAAGATCAGGATTAAGCTATTAGAT
CCTTCATGAAAGAGATTGTGATGGGCAAGTAGAGTTCATAATGGCACCATTCACTCTGG
ACAAAGTTGGGAGACAAAACAAGATGGACTTGTAACCTTCTCAATGCAGGTGATGATA
TTTTCCACAATGCTCTTGCCAGGAACAAGTTTCTCTCATGAAGGCAAATCTGCATACCT
TCTTTCTAGGTTTGGCAATAATTCATTCTTCCACCCAGAAAGAATCGTGCCCACTATAT
GAAATAAATGCATGAAACTGGAGATTTCTTTGTAGTTCTTCTAAGGGTATGTTCCCTGGCC
CCTGCGCCGGGTTTGGTCCACTGGCCACACCATCCTGAGAATCCCAGGCCATATCCAG
TACCTGTCCAAGGAGGGCCATTACACCCCCCCTCATGGGGCAACAATGGCGACAA
TCACAAGACTTTTGTGCGAGATAATCCAACCTGGAAAACCCTCTAAAGGGTCCCTTTAA
CTTCCGGGTGTCACCCTATAAATAGGCCACCCTCAAACTAATTGAACCTGGCTTTATT
TTACAN

Restriction Sites:

NotI-NotI

ACCN:

NM_003263

Insert Size:

2820 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_003263.3 , NP_003254.2
RefSeq Size:	2867 bp
RefSeq ORF:	2361 bp
Locus ID:	7096
UniProt ID:	Q15399
Cytogenetics:	4p14
Domains:	TIR, LRRCT, LRR, LRR_TYP
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Toll-like receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is ubiquitously expressed, and at higher levels than other TLR genes. Different length transcripts presumably resulting from use of alternative polyadenylation site, and/or from alternative splicing, have been noted for this gene. [provided by RefSeq, Jul 2008]</p>