

Product datasheet for **SC112722**

TLR2 (NM_003264) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR2 (NM_003264) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLR2
Synonyms:	CD282; TIL4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_003264 edited
GAATTCGGCACGAGGCGGAGGCAGCGAGAAAAGCGCAGCCAGGCGGCTGCTCGGCGTTCTC
TCAGGTGACTGCTCGGAGTTCTCCAGTGTGGTGGTGAAGCAGGATCCAAAGGAGAC
CTATAGTGACTCCCAGGAGCTCTTAGTGACCAAGTGAAGGTACCTGTGGGGCTCATTGTG
CCCATTGCTCTTCACTGCTTCAACTGGTAGTTGTGGTTGAAGCACTGGACAATGCCA
CATACTTTGTGGATGGTGTGGTCTTGGGGTCATCATCAGCCTCTCAAGGAAGAATCC
TCCAATCAGGCTTCTGTCTTGTGACCGCAATGGTATCTGCAAGGGCAGCTCAGGATCT
TTAAACTCCATTCCCTCAGGGCTCACAGAAGCTGTAAAAAGCCTTGACCTGTCCAACAAC
AGGATCACCTACATTAGCAACAGTGACCTACAGAGGTGTGTAACCTCCAGGCTCTGGTG
CTGACATCCAATGGAATTAACACAATAGAGGAAGATTCTTTTTCTCCCTGGGCAGTCTT
GAACATTTAGACTTATCCTATAATTACTTATCTAATTTATCGTCTTCTGGTTCAAGCCC
CTTTCTCTTTAACATTCTAAACTTACTGGGAAATCCTTACAAAACCCTAGGGGAAACA
TCTCTTTTTTCTCATCTCACAAAATTGCAATCCTGAGAGTGGGAAATATGGACACCTTC
ACTAAGATTCAAAGAAAAGATTTTGTGGACTTACCTTCTTGAGGAACTTGAGATTGAT
GCTTCAGATCTACAGAGCTATGAGCCAAAAGTTGAAGTCAATTCAGAATGTAAGTCAT
CTGATCCTTCATATGAAGCAGCATATTTACTGCTGGAGATTTTGTAGATGTTACAAGT
TCCGTGGAATGTTTGAAGTGGCAGATACTGATTTGGACACTTCCATTTTTCAGAACTA
TCCACTGGTGAACAAAATTCATTGATTA AAAAGTTTACATTTAGAAAATGTGAAAATCACC
GATGAAAGTTTGTTCAGGTTATGAAACTTTTGAATCAGATTTCTGGATTGTTAGAAATTA
GAGTTTGATGACTGTACCTTAATGGAGTTGGTAATTTTAGAGCATCTGATAATGACAGA
GTTATAGATCCAGGTAAGTGGAAACGTTAACAAATCCGGAGGCTGCATATCCAAGGTTT
TACTTATTTTATGATCTGAGCACTTTATATTCATTACAGAAAAGGTTAAAAGAATCACA
GTAGAAAACAGTAAAGTTTTTCTGGTTCCTTGTACTTTACAAACATTTAAAATCATTAA
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GAGGATGCCTGGCCCTCTACAAACTTTAATTTTAAAGGCAAAATCATTGGCATTATTG
GAAAAACCGGAGAGACTTTGCTCACTCTGAAAACTTGACTAACATTGATATCAGTAAG
AATAGTTTTCTATGCTGAACTTGTGAGTGGCCAGAAAAGATGAAATATTTGAAC
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TATATTTCCAGAAATAAGTTGATGACTCTACCAGATGCCTCCCTTACCCTATGTTACTA
GTATTGAAAATCAGTAGGAATGCAATAACTACGTTTTCTAAGGAGCAACTTGACTCATT
CACACACTGAAGACTTTGGAAGCTGGTGCAATAACTTCAATTTGCTCCTGTGAATTCCTC
TCCTTCACTCAGGAGCAGCAAGCACTGGCCAAAGTCTTGATTGATTGGCCAGCAAATTAC
CTGTGTGACTCTCCATCCCATGTGCGTGGCCAGCAGGTTCAAGGATGTCCGCTCTCGGTG
TCGGAATGTCACAGGACAGCACTGGTGTCTGGCATGTGCTGTGCTGTCTGTTCTGTGATC
CTGCTCACGGGGTCTGTGCCACCGTTTCCATGGCCTGTGGTATATGAAAATGATGTGG
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CGTCTTTTTGATGAGAACAATGATGCTGCCATTCTCATTCTTCTGGAGCCATTGAGAAA
AAAGCCATTTCCAGCGCTTCTGCAAGCTGCGGAAGATAATGAACACCAAGACCTACCTG
GAGTGGCCATGGACGAGGCTCAGCGGGAAGGATTTGGGTAATCTGAGAGCTGCGATA
AAGTCCTAGGTTCCCATATTTAAGACCAGTCTTGTCTAGTTGGGATCTTTATGCTACTA
GTTATAGTTAAGTTCATTACACATAATTATATAAAAACTACGTGGATGTACCGTCAATTT
GAGGACTTGCTTACTAAAACACAAAATTCAAATTTTGTCTGGGGTGTGTTTTATAAA
CATATGCCAGATTTAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AACTCGAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003264 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCGGAGGCAGCGAGAAAGCGC
 AGCCAGGCGGCTGCTCGGCGTTCTCTCAGGTGACTGCTCGGAGTTCTCCCAGTGTGGT
 GTTGCAAGCAGGATCAAAGGAGACCTATAGTGACTCCCAGGAGCTTTAGTGACCAAGT
 GAAGGTACCTGTGGGGCTCATTGTGCCATTGCTCTTTCAGTCTTTCAACTGGTAGTTG
 TGGGTTGAAGCACTGGACAATGCCACATACTTTGTGGATGGTGTGGGTCTTGGGGTCA
 CATCAGCCTCTCCAAGGAAGAATCCTCCAATCAGGCTTCTGTCTTGTGACCGCAATGG
 TATCTGCAAGGGCAGCTCAGGATCTTTAACTCCATTCCCTCAGGGCTCACAGAAGCTGT
 AAAAAGCCTTGACCTGTCCAACAACAGGATCACCTACATTAGCAACAGTGACCTACAGAG
 GTGTGTGAACCTCCAGGCTCTGGTGTGACATCCAATGGAATTAACACAATAGAGGAAGA
 TTCTTTTTCTTCCCTGGGAGTCTTGAACATTTAGACTTATCCTATAATTACTTATCTAA
 TTTATCGTCTTCCGTTCAAGCCCTTCTTCTTTAACATTCTTAACTTACTGGGAAA
 TCCTTANCAAACCTAGGGGAAACATCTTTTTTCTCATCTCACAAAATGCAAATCCT
 GAGAGTGGGAAAATAGGACACCTTCACTAAGATCAAAGAAAAGAATTTGCTGGACTTNA
 CCTTCTTGAGAACTGAGATTGATGCTTCAGATCTACAGAGCTATGAGCCANAANGNT
 TGAAGTCAATTAGAANTGAAGTCATCTGATCCTTATATGAAGCAGCATATTTACTGCTG
 GNAGATTNGTAAAGGTACCAGTTCGGGAATGTTTTGGAAGTGGAGAACTGATTTGCAC
 CTTTCATTTTCAGACTACCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003264 unedited
 GCCGCTTCTAAAGTCGAGNTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACTGGCATAT
 GTTTATAAACAGCACCCAGACAAAATTTGAAGTTTTGTAGTTTTAGTAAGCAAGTCCCT
 CAAATGACGGCACATCCACGCAGTTTTTATATAATTATGCTGAATGAACCTAACTATAA
 CTAGTGACATAAAGATCCCAACTAGACAAAGACTGGCCTTAAATATGGGAACCTAGGACT
 TTATCGCAGCTCTCAGATTTACCCAAAATACTTCCCGCTGAGCCTCGCCCATGGGCCACT
 CCAGGTAGGTCTTGGTGTTCATTATCTTCCGCAGCTTGCAAAAGCGCTGGGGAATGGCTT
 TTTTCTCAATGGGCTCCAGAAGAATGAGAATGGCAGCTTCAATGTTCTCATCAAAAATAC
 GGAAATGGGAGAAATTTAGCTCATACTTGACCACTCACTTTAACAAAGTTTTCATAAA
 GCCACAAAGACAGCTTTGGGGCTCTTTCAATGGAGTCAATGATATTGTCAATGATCCAC
 TTGCCAGGAATGAAGCCCGCTTATGAAGACACAACCTGAAGGGGGGATTGAAGTTCTCC
 AACTCCTGGACCAATAAGGGCTCTCTCCCGAGCTAGCCTACCCGTTCACTGTAAGAAACAA
 ATGCCTTATACCAAATGTCCCTGCTGGGACCTTCTTGGGCTTCTTTTGGCCTGTAGCC
 AGCCCCCTTATTTTCAATTTCCCAAGGCCTGGAATCGGTGGCCACGACCCCGACCCGGA
 TTACTTGAACAATCCAACCCTGCCAAAACCAGGCTGTCTGGAATTCACCCGAAAGGGGC
 TTCTAACTGTGGCCCCCTGGGAGGAATCCACAGTATTGCGGCCAAAATAAAATTTGGCC
 ATCTGTGCTGTGAAGAAGAATCACGACCACGTATTCGCCCACTCTCAACTAAGGT

Restriction Sites:

NotI-NotI

ACCN:

NM_003264

Insert Size:

2810 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_003264.3 , NP_003255.2
RefSeq Size:	3417 bp
RefSeq ORF:	2355 bp
Locus ID:	7097
UniProt ID:	O60603
Cytogenetics:	4q31.3
Domains:	TIR, LRRCT, LRR, LRR_TYP, LRR_BAC, LRR_PS
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. This protein is a cell-surface protein that can form heterodimers with other TLR family members to recognize conserved molecules derived from microorganisms known as pathogen-associated molecular patterns (PAMPs). Activation of TLRs by PAMPs leads to an up-regulation of signaling pathways to modulate the host's inflammatory response. This gene is also thought to promote apoptosis in response to bacterial lipoproteins. This gene has been implicated in the pathogenesis of several autoimmune diseases. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1-8 all encode the same protein.</p>