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Product datasheet for SC122858

TLR9 (NM_017442) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR9 (NM_017442) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLR9
Synonyms:	CD289
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_017442 edited
CCACGCGTCCGGGGACCTCGAGTGTGAAGCATCCTTCCCTGTAGCTGCTGTCCAGTCTGC
CCGCCAGACCCTCTGGAGAAGCCCCTGCCCCCCAGCATGGGTTTCTGCCGCAGCGCCCTG
CACCCGCTGTCTCTCCTGGTGCAGGCCATCATGCTGGCCATGACCCTGGCCCTGGGTACC
TTGCCTGCCTTCCTACCCTGTGAGCTCCAGCCCCACGGCCTGGTGAACTGCAACTGGCTG
TTCCTGAAGTCTGTGCCCCACTTCTCCATGGCAGCACCCCGTGGCAATGTCACCAGCCTT
TCCTTGTCCTCCAACCGCATCCACCACCTCCATGATTCTGACTTTGCCCACCTGCCCAGC
CTGCGGCATCTCAACCTCAAGTGGAACTGCCCGCCGGTTGGCCTCAGCCCCATGCACTTC
CCCTGCCACATGACCATCGAGCCCAGCACCTTCTTGGCTGTGCCCACCCTGGAAGAGCTA
AACCTGAGCTACAACAACATCATGACTGTGCCTGCGCTGCCCAAATCCCTCATATCCCTG
TCCCTCAGCCATACCAACATCCTGATGCTAGACTCTGCCAGCCTCGCCGGCCTGCATGCC
CTGCGCTTCCTATTCATGGACGGCAACTGTTATTACAAGAACCCCTGCAGGCAGGCACTG
GAGGTGGCCCCGGGTGCCCTCCTTGGCCTGGGCAACCTCACCCACCTGTCACTCAAGTAC
AACAACCTCACTGTGGTGCCCCGCAACCTGCCTTCCAGCCTGGAGTATCTGCTGTTGTCC
TACAACCGCATCGTCAAACTGGCGCCTGAGGACCTGGCCAATCTGACCGCCCTGCGTGTG
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CCTCGTCACTTCCCCCAGCTACATCCCGATACCTTCAGCCACCTGAGCCGTCTTGAAGGC
CTGGTGTTGAAGGACAGTTCTCTCTCCTGGCTGAATGCCAGTTGGTTCCGTGGGCTGGGA
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GCCTTCCAGGGCCTAACACAGCTGCGCAAGCTTAACCTGTCCTTCAATTACCAAAAGAGG
GTGTCCTTTGCCCACCTGTCTCTGGCCCCTTCCTTCGGGAGCCTGGTCGCCCTGAAGGAG
CTGGACATGCACGGCATCTTCTTCCGCTCACTCGATGAGACCACGCTCCGGCCACTGGCC
CGCCTGCCCATGCTCCAGACTCTGCGTCTGCAGATGAACTTCATCAACCAGGCCCAGCTC
GGCATCTTCAGGGCCTTCCCTGGCCTGCGCTACGTGGACCTGTCGGACAACCGCATCAGC
GGAGCTTCGGAGCTGACAGCCACCATGGGGGAGGCAGATGGAGGGGAGAAGGTCTGGCTG
CAGCCTGGGGACCTTGCTCCGGCCCCAGTGGACACTCCCAGCTCTGAAGACTTCAGGCCC
AACTGCAGCACCCTCAACTTCACCTTGGATCTGTCACGGAACAACCTGGTGACCGTGCAG

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CCGGAGATGTTTGCCCAGCTCTCGCACCTGCAGTGCCTGCGCCTGAGCCACAACTGCATC
TCGCAGGCAGTCAATGGCTCCCAGTTCCTGCCGCTGACCGGTCTGCAGGTGCTAGACCTG
TCCCACAATAAGCTGGACCTCTACCACGAGCACTCATTCACGGAGCTACCACGACTGGAG
GCCCTGGACCTCAGCTACAACAGCCAGCCCTTTGGCATGCAGGGCGTGGGCCACAACTTC
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AGCCAAGTGTCCCAGCAGCTCTGCAGTACGTCGCTGCGGGCCCTGGACTTCAGCGGCAAT
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AGCTGCAACAGCATCAGCTTCGTGGCCCCCGGCTTCTTTTCCAAGGCCAAGGAGCTGCGA
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GCCTTTATGGACTTCCTGCTGGAGGTGCAGGCTGCCGTGCCCGGTCTGCCCAGCCGGGTG
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AACGAGCTTCGGGGGCAGCTGGAGGAGTGCCGTGGGCGCTGGGCACTCCGCCTGTGCCTG
GAGGAACGCGACTGGCTGCCTGGCAAAACCCTCTTTGAGAACCTGTGGGCCTCGGTCTAT
GGCAGCCGCAAGACGCTGTTTGTGCTGGCCCACACGGACCGGGTCAGTGGTCTCTTGCGC
GCCAGCTTCCTGCTGGCCCAGCAGCGCCTGCTGGAGGACCGCAAGGACGTCGTGGTGCTG
GTGATCCTGAGCCCTGACGGCCGCCGCTCCCGCTACGTGCGGCTGCGCCAGCGCCTCTGC
CGCCAGAGTGTCCTCCTCTGGCCCCACCAGCCCAGTGGTCAGCGCAGCTTCTGGGCCCAG
CTGGGCATGGCCCTGACCAGGGACAACCACCACTTCTATAACCGGAACTTCTGCCAGGGA
CCCACGGCCGAATAGCCGTGAGCCGGAATCCTGCACGGTGCCACCTCCACACTCACCTCA
CCTCTGCCTGCCTGGTCTGACCCTCCCCTGCTCGCCTCCCTCACCCCACACCTGACACAG
AGCAGGCACTCAATAAATGCTACCGAAGGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017442 unedited
NNNNAAAGTTCAGATTTTGTAATACGACTTCACTATAGGGCGGGCCGCGCAATTCCCGGG
GTATCGTCGACCCACGCGTCCGGGGACCTCGAGTGTGAAGCATCCTTCCCTGTAGCTGCT
GTCCAGTCTGCCCGCCAGACCCTCTGGAGAAGCCCCTGCCCCCCAGCATGGGTTTCTGCC
GCAGCGCCCTGCACCCGCTGTCTCTCCTGGTGCAGGCCATCATGCTGGCCATGACCCTGG
CCCTGGGTACCTTGCCTGCCTTCCTACCCTGTGAGCTCCAGCCCCACGGCCTGGTGAACT
GCAACTGGCTGTTCCTGAAGTCTGTGCCCCACTTCTCCATGGCAGCACCCCGTGGCAATG
TCACCAGCCTTTCCTTGTCCTCCAACCGCATCCACCACCTCCATGATTCTGACTTTGCCC
ACCTGCCCAGCCTGCGGCATCTCAACCTCAAGTGGAACTGCCCGCCGGTTGGCCTCAGCC
CCATGCACTTCCCCTGCCACATGACCATCGAGCCCAGCACCTTCTTGGCTGTGCCCACCC
TGGAAGAGCTAAACCTGAGCTACAACAACATCATGACTGTGCCTGCGCTGCCCAAATCCC
TCATATCCCTGTCCCTCAGCCATACCAACATCCTGATGCTAGACTCTGCCAGCCTCGCCG
GCCTGCATGCCCTGCGCTTCCTATTCATGGACGGCAACTGTTATTACAAGAACCCCTGCA
GGCAGGCACTGGAGGTGGCCCCGGGTGCCCCTCTTGGCCTGGGGCACCTCACCCACCTGT
CACTCAAGTACAACAACCTCACTGTGGTGCCCCGGCACCTGCCCTTCAGCCCTGGAGTAT
CTGCTGGTTGTCCTACAACCGCATCGTTCAACTGGGCGCCTGAGGACCTTGGCCAATCTG
ACCGC

Restriction Sites: Please inquire

ACCN: NM_017442

Insert Size:	3384 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:	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_017442.2, NP_059138.1
RefSeq Size:	3868 bp
RefSeq ORF:	3099 bp
Locus ID:	54106
UniProt ID:	Q9NR96
Cytogenetics:	3p21.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Toll-like receptor signaling pathway
Gene Summary:	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. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response. [provided by RefSeq, Aug 2017] Transcript Variant: This variant (A) is a biexonic transcript which encodes the longer isoform (A).