

Product datasheet for SC112723

TLR3 (NM_003265) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TLR3 (NM_003265) Human Untagged Clone
Tag: Tag Free
Symbol: TLR3
Synonyms: CD283; IIAE2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003265 edited
 GAATTCGGCACGAGGGAAATGTCTGGATTGGACTAAAGAAAAAGGAAAGGCTAGCAGT
 CATCCAAAAGAATCATGAGACAGACTTTGCCTTGTATCTACTTTTGGGGGGCCTTTTGC
 CCTTTGGGATGTGTGTGCATCCTCCACCACCAAGTGCAGTGTAGCCATGAAGTTGCTG
 ACTGCAGCCACCTGAAGTTGACTCAGGTACCCGATGATCTACCCACAAACATAACAGTGT
 TGAACCTTACCCATAATCAACTCAGAAGATTACCAGCCGCAACTTACAAAGGTATAGCC
 AGCTAACTAGCTTGGATGTAGGATTTAACACCATCTCAAACCTGGAGCCAGAATTGTGCC
 AGAAACTTCCCATGTTAAAAGTTTTGAACCTCCAGCACAATGAGCTATCTCAACTTTCTG
 AAAAACTTTGCCTTCTGCACGAATTTGACTGAACTCCATCTCATGTCCAACCTCAATCC
 AGAAAAATAAAAAATAATCCCTTTGTCAAGCAGAAGAATTAATCACATTAGATCTGTCTC
 ATAATGGCTTGCATCTACAAAATTAGGAACTCAGGTTCAAGTGGAAAACTCCAAGAGC
 TTCTATTATCAAAACAATAAAATCAAGCGCTAAAAGTGAAGAACTGGATATCTTTGCCA
 ATTCATCTTTAAAAAATTAGAGTTGTCATCGAATCAAATTAAGAGTTTTCTCCAGGGT
 GTTTTCACGCAATTGGAAGATTATTTGGCCTCTTTCTGAACAATGTCCAGCTGGGTCCTCA
 GCCTTACAGAGAAGCTATGTTTGGAAATTAGCAAACACAAGCATTCCGAACTGTCTCTGA
 GTAACAGCCAGCTGTCCACCACCAGCAATACAACCTTTCTTGGGACTAAAGTGGACAAATC
 TCACTATGCTCGATCTTCTACAACAACCTAAATGTGGTTGGTAACGATTCTCTTTGCTT
 GGCTTCCACAACCTAGAATATTTCTTCTAGAGTATAATAATATACAGCATTGTCTTTCTC
 ACTCTTTGCACGGGCTTTTCAATGTGAGGTACCTGAATTTGAAACGGTCTTTTACTAAAC
 AAAGATTTCCCTTGCCTCACTCCCAAGATTGATGATTTTTCTTTTCAGTGGCTAAAAT
 GTTTGGAGCACCTTAACATGGAAGATAATGATATTCCAGGCATAAAAAGCAATATGTTCA
 CAGGATTGATAAACCTGAAATACTTAAGTCTATCCAACCTCTTACAAGTTTGGCAACTT
 TGACAAATGAAACATTTGTATCACTTGCTCATTCTCCCTTACACATACTCAACCTAACCA
 AGAATAAAATCTCAAAAATAGAGAGTGATGCTTTCTTGGTTGGGCCACCTAGAAGTAC
 TTGACCTGGGCCCTTAATGAAATTTGGCAAGAAGCTCACAGGCCAGGAATGGAGAGGCTAG
 AAAATATTTTTGAAATCTATCTTCTACAACAAGTACCTGCAGCTGACTAGGAACCTCT
 TTGCCTTGGTCCCAAGCCTTCAACGACTGATGCTCCGAAGGGTGGCCCTTAAAAATGTGG



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ATAGCTCTCCTTACCATTCCAGCCTCTTCGTAACCTTGACCATTCTGGATCTAAGCAACA
 ACAACATAGCCAAACATAAATGATGACATGTTGGAGGGTCTTGAGAAACTAGAAATTCG
 ATTTGCAGCATAACAACCTTAGCACGGCTCTGGAACACGCAAACCTGGTGGTCCCATTT
 ATTTCTAAAGGGTCTGTCTCACCTCCACATCCTTAACCTGGAGTCCAACGGCTTTGACG
 AGATCCCAGTTGAGGTCTTCAAGGATTTATTTGAACTAAAGATCATCGATTTAGGATTGA
 ATAATTTAAACACACTCCAGCATCTGTCTTTAATAATCAGGTGTCTCTAAAGTCATTGA
 ACCTTCAGAAGAATCTCATAACATCCGTTGAGAAGAAGTTTTCCGGCCAGCTTTTCAGGA
 ACCTGACTGAGTTAGATATGCGCTTTAATCCCTTTGATTGCACGTGTGAAAGTATTGCCT
 GGTTTGTAAATTGGATTAACGAGACCCATACCAACATCCCTGAGCTGTCAAGCCACTACC
 TTTGCAACACTCCACCTCACTATCATGGGTTCCAGTGAGACTTTTTGATACATCATCTT
 GCAAAGACAGTGCCCTTTGAACTCTTTTTCATGATCAATACCAGTATCCTGTTGATTT
 TTATCTTTATTGTACTTCTCATCCACTTTGAGGGCTGGAGGATATCTTTTATTGGAATG
 TTTTCAGTACATCGAGTTCTTGGTTTCAAAGAAATAGACAGACAGACAGAACAGTTTGAAT
 ATGCAGCATATAAATTCATGCCTATAAAGATAAGGATTGGGTCTGGGAACATTTCTCTT
 CAATGGAAAAGGAAGACCAATCTCTCAAATTTTGTCTGGAAGAAAGGACTTTGAGGCGG
 GTGTTTTTGAAGTAGAAGCAATTGTTAACAGCATCAAAAGAAGCAGAAAAATTATTTTTG
 TTATAACACACCATCTATTAAGAGCCATTATGCAAAAGATTCAAGGTACATCATGCAG
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 CAGATTATAAACTGAACCATGCACTCTGTTTGGGAAGAGGAATGTTTAAATCTCACTGCA
 TCTTGAAGTGGCCAGTTCAGAAAGAACGGATAGGTGCCTTTTCGCATAAATTGCAAGTAG
 CACTTGGATCCAAAACCTCTGTACATTAATTTATTTAAATCAATTAGCAAAGGAGA
 AACTTTCTCAATTTAAAAAGTTCTATGGCAAATTAAGTTTTCCATAAAGGTGTTATAAT
 TTGTTTATCATATTTGTAATGATTATATTCTATCACAATTACATCTCTCTAGGAAAA
 TGTGTCTCCTTATTTAGGCCTATTTTTGACAATTGACTTAATTTTACCCAAAATAAAAC
 ATATAAGCACGTAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003265 unedited
 TAGGGCGCAACGCCAATTCGCACGAGGAAATGTCTGGATTTGGACTAAAGAAAAAGGA
 AAGGCTAGCAGTCATCCAAAAGAATCATGAGACAGACTTTGCCTTGTATCTACTTTTGGG
 GGGGCCTTTTGCCCTTTGGGATGCTGTGTGCATCCTCCACCACCAAGTGCAGTGTAGCC
 ATGATATTTTCTGACTGCAGCCACCTGAAGTTGACTCAGGTACCCGATGATCTACCCACA
 AACATAACAGTGTGAACTTACCATAATCAACTCAGAAGATTACCAGCCGCCAACTTC
 ACAAGGTATAGCCAGCTAACTAGCTTGGATGTAGGATTTAACACCATCTCAAACTGGAG
 CCAGAATTGTGCCAGAACTTCCATGTTAAAAGTTTTGAACTCCAGCACAAATGAGCTA
 TCTCAACTTTCTGATAAAACCTTTGCCTTCTGCACGAATTTGACTGAACTCCATCTCATG
 TCCAACCTCAATCCAGAAAATTAATAAATCCCTTTGTCAAGCAGAAGAATTTAATCACA
 TTAGATCTGTCTCATAATGGCTTGTCTACAAAATTAGGAACTCAGGTTTCAGCTGGAA
 AATCTCCAAGAGCTTCTATTATCAAACAATAAAATTCAGCGCTAAAAAGTGAAGAACTG
 GATATCTTTGCCAATTCATCTTTAANAAAATTAGAGTTGTCATCGAATCAAATTAAGAG
 TTTTCTCCAGGGTGTTCACGCCATTGGAAGATTATTTGGCCTTTTCTGAACATGTCC
 AGCTGGGTCCCAGCCTTACAGAGAAGCTATGTTTGAATTAGCANNACAGCATTTCGGA
 ATCTGTCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003265 unedited TAGAGTCGAGTTTTTTTTTTTTTTTTTTTACGTGCTTATATGTTTTATTTGGGTAATAAATT AAGTCAATTGTCAAAAATAGGCCGAAATAAGGAGACACATTTTCTAGAAAGAGATGTAA TTGTGATAGAATAAATCATTACAAATATGAATAAACAAATTATAACACCTTTATGGAA AACTTAAATTTGCCATAGAACTTTTAAATTGAGAAAGTTTCTCCTTTGCTAATTGAATA TTTAAATAAATTAATGTACAGAGTTTTTGGATCCAAGTGCTACTTGAATTTATGACGA AAGGCACCTATCCGTTCTTTCTGAACTGGCCAGTTCAAGATGCAAGTGAATTTAAACATT CCTCTTCGAAAACAGAGTGCATGGTTTCAAGTTTATAATCTGGAATCTCCTCAAGGAAAACC AATATAATGGAATCCAGATTTTTGTTCAATAGCTTGTGAACTGCATGATGTACCTTGAAT CTTTTGCATAATGGGTCTTTAATAGATGGTGTGTATAACAAAATAATTTTTCTGCTT CTTTTGTGCTGTTAACAATTGCTTCTAGTTCAAAAACACCCGCCTCAAAGTCCCTTTCT TCCAGACAAAATTTGAGAGATTGGTCTTCTTTTCCATTGAAGAGAATGTTCCAGACCCA ATCTTATCTTTATAGGCATGAATATATGCTGATTTCAACTGGTCTGGCTGCTGGCTA ATTCTTGAACCAAAAACCGATGACTGAACATTNCATAAAGATATCTCAGCCTCAAGTGA TGAGAGTCATAAGATAAATCACAGATCTGTTTGACATGAAAAAGTCAGGGGCACTGCTGC AGAGATGTTCAAAGCTCTGGAACATGANTGAGGGGATGTCAAGTATGCTGACCTAGAGTG NTTGGTCTGTATCATACAGCAACTCACGTGCTAGATAAGCTTTATCNGTCTGAGGGC GACTTTTAGGGTAATCTTGAGTAGCT
Restriction Sites:	NotI-NotI
ACCN:	NM_003265
Insert Size:	3190 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:	<u>NM_003265.2</u> , <u>NP_003256.1</u>
RefSeq Size:	3057 bp
RefSeq ORF:	2715 bp
Locus ID:	7098
UniProt ID:	<u>Q15455</u>
Cytogenetics:	4q35.1
Domains:	TIR, LRRCT, LRR, LRR_TYP, LRR_PS

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. The various TLRs exhibit different patterns of expression. This receptor is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate different length transcripts has been noted for this gene. [provided by RefSeq, Jul 2008]