

Product datasheet for **SC125241**

TLR10 (NM_030956) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR10 (NM_030956) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLR10
Synonyms:	CD290
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125241 sequence for NM_030956 edited (data generated by NextGen Sequencing)

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ATGAGACTCATCAGAAACATTTACATATTTTGTAGTATTGTTATGACAGCAGAGGGTGAT
GCTCCAGAGCTGCCAGAGAAAGGGAACGTATGACCAACTGCTCCAACATGTCTCTAAGA
AAGGTTCCCGCAGACTTGACCCAGCCACAACGACACTGGATTATCCTATAACCTCCTT
TTTCAACTCCAGAGTTTCAAGTTTCTATTCTGTCTCCAACTGAGAGTTTTGATTCTATGC
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TTAGATTTGTCTAATAACAGACTGAAGAGTGTAACCTGGTATTTACTGGCAGGTCTCAGG
TATTTAGATCTTTCTTTTAAATGACTTTGACACCATGCCTATCTGTGAGGAAGCTGGCAAC
ATGTCACACCTGGAAATCCTAGGTTTGTAGTGGGGCAAAAATACAAAATCAGATTCCAG
AAAATTGCTCATCTGCATCTAAATACTGTCTTCTTAGGATTGAGAACTCTTCTCATTAT
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CATGCTAAGACATCGGTTCTATTGCTTAATAAAGTTGATTTACTCTGGGACGACCTTTTC
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TTTGGTGGTAAGGCTTATCTTGACCACAATTCATTTGACTACTCAAATACTGTAATGAGA
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GGAAGTAAAGTAAAGACGTTCTCTCCACGAATTATCTTGCAACACAGCTCTGTTGATT
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AGTGAACATGATTCTCTGTGGGTGAAGAATGAATTGATCCCCAATCTAGAGAAGGAAGAT
GGTTCTATCTTGATTTGCCTTTATGAAAGCTACTTTGACCCTGGCAAAAGCATTAGTGAA
AATATTGTAAGCTTCATTGAGAAAAGCTATAAGTCCATCTTTGTTTTGTCTCCCACTTT
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AATTCTGATCACATAATTCTTATCTTACTGGAACCCATTCCATTCTATTGCATTCCCACC
AGGTATCATAAACTGAAAGCTCTCCTGGAAAAAAGCATACTTGAATGGCCCAAGGAT
AGGCGTAAATGTGGGCTTTTCTGGGCAACCTTCGAGCTGCTGTTAATGTTAATGTATTA
GCCACCAGAGAAATGTATGAACTGCAGACATTCACAGAGTTAAATGAAGAGTCTCGAGGT
TCTACAATCTCTCTGATGAGAACAGACTGTCTATAA

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Clone variation with respect to NM_030956.3

721 a=>c;1032 g=>t;1105 a=>c;2172 t=>c;2323 a=>g;2427 t=>c

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_030956 unedited <pre> AGGGAAGTTGNNCATTGGTAGCCTTTTAAAAACGCCTCACTATAGGGCGGCCGCGAATT NNNNGCAGAACGAATCATCCACGCACCTGCAGCTCTGCTGAGAGAGTGCAAGCCGTGGGG GTTTTGAGCTCATCTTCATTCATATGAGGAAATAAGTGGTAGAATCCTTGAAATAC AATGAGACTCATCAGAAACATTTACATATTTTGTAGTATTGTTATGACAGCAGAGGGTGA TGCTCCAGAGCTGCCAGAAAGGGAAGTATGACCAACTGCTCCAACATGTCTCTAAG AAAGGTTCCCGCAGACTTGACCCAGCCACAACGACACTGGATTATCCTATAACCTCCT TTTTCAACTCCAGAGTTCAGATTTTCATTCTGTCTCCAACTGAGAGTTTTGATTCTATG CCATAACAGAATTCAACAGCTGGATCTCAAAACCTTTGAATTCAACAAGGAGTTAAGATA TTTAGATTTGTCTAATAACAGACTGAAGAGTGTAAGTGGTATTTACTGGCAGGTCTCAG GTATTTAGATCTTTCTTTAATGACTTTGACACCATGCCTATCTGTGAGGAAGCTGGCAA CATGTCACACCTGGAATCCTAGGTTTGAGTGGGGCAAAAATACAAAATCAGATTTCCA GAAAATTGCTCATCTGCATCTAAATACTGTCTTCTTAGGATTCAGAACTCTTCTCATT TGAAGAAGGTAGCTGGCCATCTTANACACAACAAAAGTGCACATTGGGTTTACCATGGA CACAAATTTCTGGGGTCTTTNGCGTGATGGAATCAA </pre>
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_030956 unedited <pre> CAGCCAGGAGAGGCACTGNNAANCNTNAAGGGATGCCACCCGGGATCTGTTCAAGAAAC AGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGAT GGAGTCTCGCTCTGTACCAGGCTGGAGTGCANTNNCTCNNTCTCAACTCACTGCAACTG CCACCTCCCAAGTTCAAGCGATTCTCTGCCTCAACCGTCCAAGTAGCTGGGACTACAGG CGAGCACCGTCACTCCCGCTAACTCTTGATTTTTAGTAAAAACAAGGTTACACCATGC TGGCCAGGATGGTATACATCTCTTGACCTCAAGGTTAACCCCTTGGCCTCCAACAGTG TTGGGATTACAAAATTGAGCCACTGCACCTGGACACACCTTTCATGATAATAAACATCA TGGGATGAACACCTTCTTCCATAAGCCCTAATAAACCTAGGAAGGTGTTTCTATTGATA CATTCTTAAAAATCCTTCTATGAAGTATGAACGGAATAACCCCTTCAATTATAATA AATATGTGTCAAATTGGCATAATAAACGTTGTATCAAAGAACATCCCAACTAGCATTGTG AGTCCCATCTTTCCAAAGGCTGGGGGCATTTTAAACAGACTGGTCTATCTAACATCAT GAAAAACTACAGAATGTTTATTATCATTGTGAAATCTGGATACAATAAATATTCTGCTGT CTAACTAACTATAACAGACACTCCAAGTTTGCCAAAAGACCAATAACCA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_030956
Insert Size:	3600 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_030956.2, NP_112218.2

RefSeq Size: 3594 bp

RefSeq ORF: 2436 bp

Locus ID: 81793

UniProt ID: Q9BXR5

Cytogenetics: 4p14

Protein Families: Druggable Genome, Transmembrane

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 gene is most highly expressed in lymphoid tissues such as spleen, lymph node, thymus, and tonsil. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene. [provided by RefSeq, Aug 2010]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1-4 encode the same protein (isoform a).