

## Product datasheet for **RC234916**

### TLR10 (NM\_001195107) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TLR10 (NM_001195107) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLR10
Synonyms:	CD290
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC234916 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGACTCATCAGAAACATTTACATATTTTGTAGTATTGTTATGACAGCAGAGGGTGATGCTCCAGAGC  
 TGCCAGAAGAAAGGGAACCTGATGACCAACTGCTCCAACATGTCTCTAAGAAAGGTTCCCGCAGACTTGAC  
 CCCAGCCACAACGACACTGGATTATCCTATAACCTCCTTTTTCAACTCCAGAGTTCAGATTTTCTATTCT  
 GTCTCCAAACTGAGAGTTTTGATTCTATGCCATAACAGAATTCAACAGCTGGATCTCAAAACCTTTGAAT  
 TCAACAAGGAGTTAAGATATTTAGATTTGTCTAATAACAGACTGAAGAGTGAACCTGGTATTTACTGGC  
 AGGTCTCAGGTATTTAGATCTTTCTTTTAAATGACTTTGACACCATGCCTATCTGTGAGGAAGCTGGCAAC  
 ATGTCACACCTGGAAATCCTAGGTTTGGTGGGCAAAAATACAAAATCAGATTTCCAGAAAATGCTC  
 ATCTGCATCTAAATACTGTCTTCTTAGGATTCAGAACTCTTCTCATTATGAAGAAGGTAGCCTGCCCAT  
 CTTAAACACAACAAAACCTGCACATTGTTTTACCAATGGACACAAAATTTCTGGGTTCTTTGCGTGATGGA  
 ATCAAGACTTCAAAAATATTAGAAATGACAAATATAGATGGCAAAAGCCAATTTGTAAGTTATGAAATGC  
 AACGAAATCTTAGTTTAGAAAATGCTAAGACATCGGTTCTATTGCTTAATAAAGTTGATTTACTCTGGGA  
 CGACCTTTTCTTATCTTACAATTTGTTGGCATAACATCAGTGGAACTTTTCCAGATCCGAAATGTGACT  
 TTTGGTGGTAAGGCTTATCTTGACCACAATTCATTTGACTACTCAAACTGTAATGAGAATAAAAAT  
 TGGAGCATGTACATTTCCAGAGTGTTCATTTCAACAGGATAAAAATCTATTTGCTTTTGACCAAAATGGA  
 CATAGAAAACCTGACAAATCAAATGCACAAATGCCACACATGCTTTCCCGAATATCTACGAAATTC  
 CAATATTTAAATTTTCCCAATAATCTTAACAGACGAGTTGTTTAAAGAAGTCACTCACTGCCTCACT  
 TGAAGAACTCTCATTGTTGAAATGGCAATAAACTGGAGACACTTTCTTTAGTAAAGTTGCTTTGCTAACAC  
 ACCCTTGGAACTTGGATCTGAGTCAAAATCTATTACAACATAAAAATGATGAAAATGCTCATGGCCA  
 GAAACTGTGGTCAATATGAATCTGTCATACAATAAATGCTGATTCTGTCTTCAGGTGCTTGCCAAAA  
 GTATTCAAATACTTGACCTAAATAATAACCAAAATCCAACTGTACCTAAAGAGACTATTCATCTGATGGC  
 CTTACGAGAACTAAATATTGCATTTAATTTCTAACTGATCTCCCTGGATGCAGTCATTTAGTAGACTT  
 TCAGTTCTGAACATTGAAATGAACTTCATTTCTAGCCATCTCTGGATTTGTTCCAGAGCTGCCAGGAAG  
 TTAAGAACTCTAAATGCGGAAGAAATCCATTCCGGTGTACCTGTGAATAAAAAATTTTATTAGCTTGA  
 AACATATTCAGAGGTCATGATGGTTGGATGGTCAGATTCATACACCTGTGAATACCCTTTAAACCTAAGG  
 GGAAGTAAAGACGTTTCACTCCACGAATTATCTTGCAACACAGCTCTGTTGATTGTCACCATTTG  
 TGGTATTATGCTAGTTCTGGGTTGGCTGTGGCCTTCTGCTGTCTCCACTTTGATCTGCCCTGGTATCT  
 CAGGATGCTAGGTCAATGCACACAACATGGCACAGGGTTAGGAAAACAACCAAGAACAACCTCAAGAGA  
 AATGTCCGATTCACGCATTTATTTTATACAGTGAACATGATTCTCTGTGGGTGAAGATGAATTGATCC  
 CCAATCTAGAGAAGGATGGTTCTAATCTGATTTGCTTTATGAAAGTACTTTGACCCTGGCAAAAAG  
 CATTAGTGAATAATTGTAAGCTTCATTGAGAAAAGCTATAAGTCCATCTTTGTTTTGTCTCCAACTTT  
 GTCCAGAATGAGTGGTCCATTATGAATTTACTTTGCCACCACAATCTCTCCATGAAAATTTCTGATC  
 ATATAATCTTACTTACTGAAACCATTCATTTCTATTGATTCCACCAGGTATCATAAACTGAAAGC  
 TCTCTGGAAAAAAGCATACTTGAATGGCCCAAGGATAGGCGTAAATGTGGGCTTTTCTGGGCAAC  
 CTTGAGCTGCTATTAATGTTAATGTATTAGCCACCAGGAAATGTATGAACTGCAGACATTCACAGAGT  
 TAAATGAAGAGTCTCGAGTTCTACAATCTCTCTGATGAGAACAGATTGTCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234916 protein sequence  
Red=Cloning site Green=Tags(s)

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHS  
VSKLRVLILCHNRIQQDLKTFEFNKELRYLDLNNRLKSVTWYLLAGLRYLDLDFNDFDMPICEEAGN  
MSHLEILGLSGAKIQKSDFKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWLLRDG  
IKTSKILEMTNIDGKSQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVT  
FGGKAYLDHNSFDYSNTVMRTIKLEHVHFRVFIQQDKIYLLLTAKMDIENLTISNAQMPHMLFPNYPTKF  
QYLNFAANNILTDELFKRTIQLPHLKTILNNGKLETLSLVSCFANNTPLEHLDLSQNLQHKNDENCSWP  
ETVVMNMLSYNKLSDSVFRCLPKSIQILDNQQIQTPKETIHLMALRELNIAFNFLTDLPGCSHFRL  
SVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFRTCELKNFIQLETYSEVMVWSDSYTCEYPLNLR  
GTRLKDVHLHELSCNTALLIVTIVVIMLVGLAVAFCLHFDLPWYLRMLGQCTQTWHRVKTQEQQLKR  
NVRFHAFISYSEHDSLWKNELIPNLEKEDGSILICLYESYFDPGKSIENIVSFIKSYKSIKSVLSPNF  
VQNEWCHYEFYFAHNLFHENDHIIILILEPIPFYCIPTRYHKLKALLEKKAYLEWPKDRRKCGLFWAN  
LRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6688\\_c10.zip](https://cdn.origene.com/chromatograms/mk6688_c10.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001195107

ORF Size: 2433 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001195107.1](#), [NP\\_001182036.1](#)

**RefSeq Size:** 3673 bp

**RefSeq ORF:** 2436 bp

**Locus ID:** 81793

**UniProt ID:** [Q9BXR5](#)

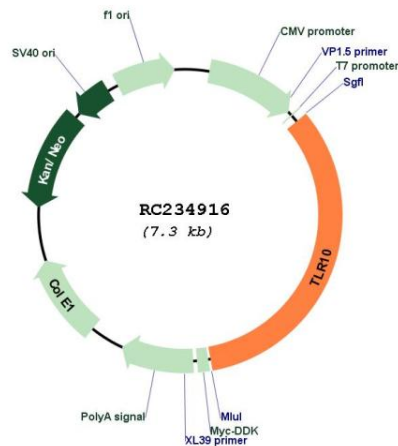
**Cytogenetics:** 4p14

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 94.6 kDa

**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]

### Product images:



Circular map for RC234916