

Product datasheet for **RC216209**

TLR10 (NM_001017388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR10 (NM_001017388) 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)



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ORF Nucleotide Sequence:

>RC216209 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGACTCATCAGAAACATTTACATATTTTGTAGTATTGTTATGACAGCAGAGGGTGATGCTCCAGAGC
 TGCCAGAAGAAAGGGAACCTGATGACCAACTGCTCCAACATGTCTCTAAGAAAGGTTCCCGCAGACTTGAC
 CCCAGCCACAACGACACTGGATTATCCTATAACCTCCTTTTTCAACTCCAGAGTTCAGATTTTCTATTCT
 GTCTCCAAACTGAGAGTTTTGATTCTATGCCATAACAGAATTCAACAGCTGGATCTCAAAACCTTTGAAT
 TCAACAAGGAGTTAAGATATTTAGATTTGTCTAATAACAGACTGAAGAGTGAACCTGGTATTTACTGGC
 AGGTCTCAGGTATTTAGATCTTTCTTTTAAATGACTTTGACACCATGCCTATCTGTGAGGAAGCTGGCAAC
 ATGTCACACCTGGAAATCCTAGGTTTGGTGGGCAAAAATACAAAATCAGATTTCCAGAAAATGCTC
 ATCTGCATCTAAATACTGTCTTCTTAGGATTCAGAACTCTTCTCATTATGAAGAAGGTAGCCTGCCCAT
 CTTAAACACAACAAAACCTGCACATTGTTTTACCAATGGACACAAAATTTCTGGGTTCTTTGCGTGATGGA
 ATCAAGACTTCAAAAATATTAGAAATGACAAAATATAGATGGCAAAAGCCAATTTGTAAGTTATGAAATGC
 AACGAAATCTTAGTTTAGAAAATGCTAAGACATCGGTTCTATTGCTTAATAAAGTTGATTTACTCTGGGA
 CGACCTTTTCTTATCTTACAATTTGTTGGCATAACATCAGTGGAACTTTTCCAGATCCGAAATGTGACT
 TTTGGTGGTAAGGCTTATCTTGACCACAATTCATTTGACTACTCAAACTGTAATGAGAACTATAAAAT
 TGGAGCATGTACATTTAGAGTGTTTTACATTCACAGGATAAAATCTATTTGCTTTTGACCAAAATGGA
 CATAGAAAACCTGACAAATCAAATGCACAAATGCCACACATGCTTTCCCGAATTATCTACGAAATTC
 CAATATTTAAATTTTGGCAATAATCTTAACAGACGAGTTGTTTAAAGAAGTCACTCAACTGCCTCACT
 TGAAGAACTCTCATTGTAATGGCAATAAACTGGAGACACTTTCTTTAGTAAAGTTGCTTTGCTAACACAC
 ACCCTTGGAACTTGGATCTGAGTCAAAATCTATTACAACATAAAAATGATGAAAATGCTCATGGCCA
 GAAACTGTGGTCAATATGAATCTGTCATACAATAAATTGCTGATTCTGTCTTCAGGTGCTTGCCAAAA
 GTATTCAAATACTTGACCTAAATAATAACCAAAATCCAACTGTACCTAAAGAGACTATTCATCTGATGGC
 CTTACGAGAACTAAATATTGCATTTAATTTCTAACTGATCTCCCTGGATGCAGTCATTTAGTAGACTT
 TCAGTTCTGAACATTGAAATGAACTTCATCTCAGCCATCTCTGGATTTGTTTCAGAGCTGCCAGGAAG
 TTAAGAACTCTAAATGCGGAAGAAATCCATTCCGGTGTACCTGTGAATAAAAAATTTTATTAGCTTGA
 AACATATTCAGAGGTCATGATGGTTGGATGGTCAGATTCATACACCTGTGAATACCCTTTAAACCTAAGG
 GGAAGTAAAGACGTTTCTCCACGAATTATCTTGAACACAGCTCTGTTGATTGTCACCATTTG
 TGGTATTATGCTAGTTCTGGGTTGGCTGTGGCCTTCTGCTGTCTCCACTTTGATCTGCCCTGGTATCT
 CAGGATGCTAGGTCAATGCACACAACATGGCACAGGGTTAGGAAAACAACCAAGAACAACCTCAAGAGA
 AATGTCCGATTCCACGCATTTATTTTATACAGTGAACATGATTCTCTGTGGGTGAAGATGAATTGATCC
 CCAATCTAGAGAAGGATGGTTCTATCTTGATTTGCCTTATGAAAGCTACTTTGACCCTGGCAAAAAG
 CATTAGTGAATAATTGTAAGCTTCATTGAGAAAAGCTATAAGTCCATCTTTGTTTTGTCTCCAACTTT
 GTCCAGAATGAGTGGTGCATTATGAATCTACTTTGCCACCACAATCTCTCCATGAAAATTTCTGATC
 ATATAATCTTACTTACTGGAACCCATCCATCTATTGATTCCACCAGGTATCATAAACTGAAAGC
 TCTCTGGAAAAAAGCATACTTGAATGGCCCAAGGATAGGCGTAAATGTGGGCTTTTCTGGGCAAC
 CTTGAGCTGCTATTAATGTTAATGTATTAGCCACCAGAGAAATGTATGAACTGCAGACATTCACAGAGT
 TAAATGAAGAGTCTCGAGTTCTACAATCTCTCTGATGAGAACAGATTGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216209 protein sequence
Red=Cloning site Green=Tags(s)

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHS
VSKLRVLIILCHNRIQQDLKTFEFNKELRYLDLNNRLKSVTWYLLAGLRYLDLDFNDFDFTMPICEEAGN
MSHLEILGLSGAKIQKSDFKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDG
IKTSKILEMTNIDGKSQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVT
FGGKAYLDHNSFDYSNTVMRTIKLEHVHFRVFIQQDKIYLLLTAKMDIENLTISNAQMPHMLFPNYPTKF
QYLNFAANNILTDELFKRTIQLPHLKTILNNGKLETLSLVSCFANNTPLEHLDSLQNLQHKNDENCSWP
ETVVMNMLSYNKLSDSVFRCLPKSIQILDNNNQIQTPKETIHLMALRELNIAFNFLTDLPGCSHFRL
SVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFRTCELKNFIQLETYSEVMVWSDSYTCEYPLNLR
GTRLKDVHLHELSCNTALLIVTIVVIMLVGLAVAFCLHFDLPWYLRMLGQCTQTWHRVKTQEQQLKR
NVRFHAFISYSEHDSLWKNELIPNLEKEDGSILICLYESYFDPGKSIENIVSFIKSYKSIKSVLSPNF
VQNEWCHYEFYFAHNLFHENDHIIILILEPIPFYCIPTRYHKLKALLEKKAYLEWPKDRRKCGLFWAN
LRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6688_c10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001017388

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_001017388.2](#), [NP_001017388.1](#)

RefSeq Size: 3484 bp

RefSeq ORF: 2436 bp

Locus ID: 81793

UniProt ID: [Q9BXR5](#)

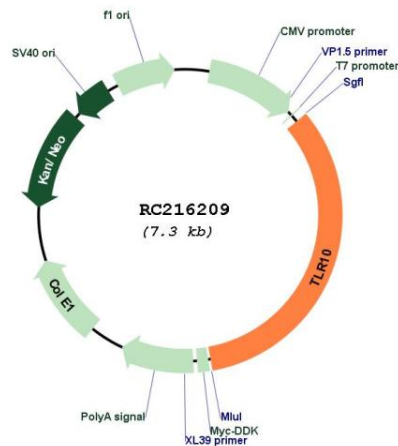
Cytogenetics: 4p14

Protein Families: Druggable Genome, Transmembrane

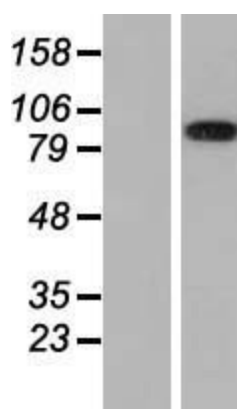
MW: 94.6 kDa

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 RC216209



Western blot validation of overexpression lysate (Cat# [LY422769]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216209 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).