

Product datasheet for **RC231417**

TLR10 (NM_001195108) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR10 (NM_001195108) 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:**

>RC231417 representing NM_001195108
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGACAGCAGAGGGTGATGCTCCAGAGCTGCCAGAAGAAAGGGAAGTATGACCAACTGCTCCAACATGT
 CTCTAAGAAAGGTTCCCGCAGACTTGACCCAGCCACAACGACACTGGATTTATCCTATAACCTCCTTTT
 TCAACTCCAGAGTTCAGATTTTCTGCTCTCCAACTGAGAGTTTGGATTCTATGCCATAACAGAATT
 CAACAGCTGGATCTCAAAACCTTTGAATTCAACAAGGAGTTAAGATATTTAGATTGTCTAATAACAGAC
 TGAAGAGTGTAACCTGGTATTTACTGGCAGGTCTCAGGTATTTAGATCTTTCTTTAATGACTTTGACAC
 CATGCCTATCTGTGAGGAAGCTGGCAACATGTCACACCTGGAAATCCTAGGTTTGAGTGGGGCAAAAATA
 CAAAAATCAGATTTCCAGAAAATTGCTCATCTGCATCTAAATACTGTCTTCTTAGGATTCAGAACTTTC
 CTCATTATGAAGAAGGTAGCCTGCCCATCTTAAACACAACAAAAGTGCACATTGTTTTACCAATGGACAC
 AAATTTCTGGGTCTTTTGCCTGATGGAATCAAGACTTCAAAAATATTAGAAATGACAAATATAGATGGC
 AAAAGCCAATTTGTAAGTTATGAAATGCAACGAAATCTTAGTTTAGAAAATGCTAAGACATCGGTTCTAT
 TGCTTAATAAAGTTGATTTACTCTGGGACGACCTTTTCTTATCTTACAATTTGTTTGGCATAACATCAGT
 GGAACACTTTTCCAGATCCGAAATGTGACTTTTGGTGGTAAGGCTTATCTTGACCACAATTCATTTGACTAC
 TCAAACTACTGTAATGAGAACTATAAAATGGAGCATGTACATTTCCAGAGTGTGTTTACATTCACAGGATA
 AAATCTATTTGCTTTTGACCAAAATGGACATAGAAAACCTGACAAATCAAAATGCACAAATGCCACACAT
 GCTTTTCCGAATTATCCTACGAAATCCAATATTTAAATTTGCAATAATATCTTAACAGACGAGTTG
 TTTAAAGAAGTATCCAAGTGCCTCACTTGAAGTCTCATTTTGAATGGCAATAAACTGGAGACACTTT
 CTTTAGTAAGTTGCTTTGCTAACAACACACCCTTGAACACTTGGATCTGAGTCAAAATCTATTACAACA
 TAAAAATGATGAAAATTGCTCATGGCCAGAAAAGTGGTCAATATGAATCTGTCATACAATAAATTGTCT
 GATTCTGTCTTCAGGTGCTTGCCCAAAAGTATTCAAATACTTGACCTAAATAATAACCAATCCAAGT
 TACCTAAGAGACTATTCATCTGATGGCCTTACGAGAACTAAATATTGCATTTAATTTTCTAACTGATCT
 CCCTGGATGCAGTCATTTAGTAGACTTTCAGTTCTGAACATTGAAATGAACCTCATTCTCAGCCCATCT
 CTGGATTTTGTTCAGAGCTGCCAGGAAGTTAAACTCTAAATGCGGGAAGAAATCCATTCGGGTGTACCT
 GTGAATTAATAAATTTTATTCAGCTTGAACATATTTCAGAGGTGATGATGGTTGGATGGTCAGATTCATA
 CACCTGTGAATACCTTTAAACCTAAGGGGAAGTAAAGTAAAGACGTTTCATCTCCACGAATTATCTTGC
 AACACAGCTCTGTTGATTGTACCATTTGTGTTATTATGCTAGTTCTGGGGTTGGCTGTGGCCTTCTGCT
 GTCTCCACTTTGATCTGCCCTGGTATCTCAGGATGCTAGGTCAATGCACACAAACATGGCACAGGGTTAG
 GAAAACAACCCAAGAACAACCTCAAGAGAAATGTCCGATTCACGCATTTATTTTATACAGTGAACATGAT
 TCTCTGTGGGTGAAGAATGAATTGATCCCAATCTAGAGAAGGAAGATGGTTCTATCTTGATTTGCTTTT
 ATGAAAGCTACTTTGACCCTGGCAAAAGCATTAGTGAAAATATTGAAGCTTCATTGAGAAAAGCTATAA
 GTCCATCTTTGTTTGTCTCCCACTTTGTCCAGAATGAGTGGTGCCATTATGAATTTACTTTGCCCCAC
 CACAATCTCTCCATGAAAATTTGATCATATAATTCTTATCTTACTGGAACCCATTCCATTCTATTGCA
 TTCCCACCAGGTATCATAAACTGAAAGCTCTCCTGGAAAAAAGCATACTTGAATGGCCCAAGGATAG
 GCGTAAATGTGGGCTTTTCTGGGCAACCTTCGAGCTGCTATTAATGTTAATGTATTAGCCACCAGAGAA
 ATGTATGAACTGCAGACATTCACAGAGTTAAATGAAGAGTCTCGAGGTTCTACAATCTCTGATGAGAA
 CAGATTGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231417 representing NM_001195108

Red=Cloning site Green=Tags(s)

MTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHSVSKLRVLIILCHNRI
 QQLDLKTFFFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDMPICEEAGNMSHLEILGLSGAKI
 QKSDFQKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDG
 KSQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDY
 SNTVMRTIKLEHVHFRVFIQQDKIYLLLTMDIENLTISNAQMPHMLFPNYPTKFQYLNFAANNILTDEL
 FKRTIQLPHLKTILNGNKLETLSLVSCFANNTPLEHLDLSQNLQHKNDENCSPETVVNMNLSYNKLS
 DSVFRCLPKSIQILDNNNQIQTVPKETIHLMALRELNIAFNFLTDLPGCSHFSRLSVLNIEMNFILSPS
 LDFVQSCQEVKTLNAGRNPFRCTCELKNFIQLETYSEVMMVGWSDSYTCEYPLNLRGTRLKDVHLHELSC
 NTALLIVTIVVIMLVGLAVAFCCCLHFDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHD
 SLWVKNELIPNLEKEDGSILICLYESYFDPGKSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAH
 HNFLFHENDHIIILILLEPIPFYCIPTRYHKLKALLEKKAYLEWPKDRRCGLFWANLRAAINVNVLATRE
 MYELQTFTELNEESRGSTISLMRTDCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



ACCN: NM_001195108

ORF Size: 2391 bp

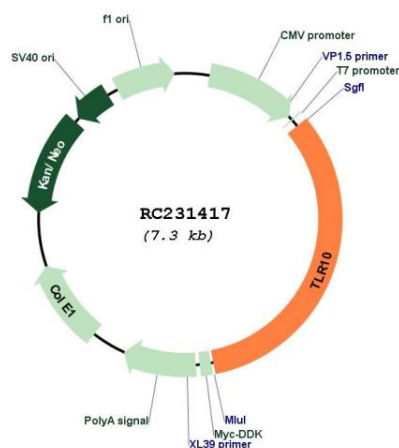
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001195108.2</u>
RefSeq ORF:	2394 bp
Locus ID:	81793
UniProt ID:	<u>Q9BXR5</u>
Cytogenetics:	4p14
Protein Families:	Druggable Genome, Transmembrane
MW:	93.3 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 RC231417

