

## Product datasheet for **RC207597**

### **TLR2 (NM\_003264) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TLR2 (NM_003264) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLR2
Synonyms:	CD282; TIL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC207597 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCACATACTTTGTGGATGGTGTGGGTCTTGGGGTCAATCATCAGCCTCTCCAAGGAAGAATCCTCCA  
 ATCAGGCTTCTCTGTCTTGTGACCGCAATGGTATCTGCAAGGGCAGCTCAGGATCTTTAAACTCCATTCC  
 CTCAGGGCTCACAGAAGCTGTA AAAAGCCTTGACCTGTCCAACAACAGGATCACCTACATTAGCAACAGT  
 GACCTACAGAGGTGTGTGAACCTCCAGGCTCTGGTGTGACATCCAATGGAATTAACACAATAGAGGAAG  
 ATTCTTTTTCTCCCTGGGCAGTCTTGAACATTTAGACTTATCCTATAATTACTTATCTAATTTATCGTC  
 TTCCTGGTTCAAGCCCTTTCTCTTTAACATTCTTAACTTACTGGAAATCCTTACAAAACCTAGGG  
 GAAACATCTCTTTTTCTCATCTCAAAAATTGCAAACTCTGAGAGTGGGAAATATGGACACCTTCACTA  
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 GAGCTATGAGCCAAAAGTTTGAAGTCAATTCAGAACGTAAGTCATCTGATCCTTCATATGAAGCAGCAT  
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 AAATGTGAAAATCACCGATGAAAGTTTGTTCAGGTTATGAAACTTTTGAATCAGATTTCTGGATTGTTA  
 GAATTAGAGTTTGTGACTGTACCTTAATGGAGTTGGTAATTTTAGAGCATCTGATAATGACAGAGTTA  
 TAGATCCAGGTAAGTGGAAACGTTAACAAATCCGAGGCTGCATATTCGAAGTTTACTTATTTTATGA  
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 GTTCTTGTTTACTTTCAACAATTTAAAATCATTAGAATACTTGGATCTCAGTGA AAAATTTGATGGTTG  
 AAGAATACTTGA AAAATTCAGCCTGTGAGGATGCCTGGCCCTCTCAAAAATTTAATTTAAGGCAAAA  
 TCAATTTGGCATCATTGGAAAAACCGGAGAGACTTTGCTCACTCTGAAAAACTTGACTAACATTGATATC  
 AGTAAGAATAGTTTTCTATGCCTGAACTTGTGAGTGGCCAGAAAAGATGAAATATTTGAACTTAT  
 CCAGCACACGAATACACAGTGTAAACAGGCTGCATTC CCAAGACTGGAATTTTAGATGTTAGCAACAA  
 CAATCTCAATTTATTTCTTGAATTTGCCGCACTCAAAGA ACTTTATATTTCCAGAAAATAGTTGATG  
 ACTCTACCAGATGCCTCCCTCTTACCCATGTTACTAGTATTGAAAATCAGTAGGAATGCAATAACTACGT  
 TTTCTAAGGAGCAACTTGACTCATTTCACACACTGAAGACTTTGGAAGCTGGTGGCAATAACTTCATTTG  
 CTCCTGTGAATTCCTCTCCTTCACTCAGGAGCAGCAAGCACTGGCCAAAGTCTTGATTGATTGGCCAGCA  
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 CCCAGGAAAGCTCCCAGCAGGAACATCTGCTATGATGCATTTGTTTCTTACAGTGAGCGGGATGCCTACT  
 GGGTGGAGAACCTTATGGTCCAGGAGCTGGAGA ACTTCAATCCCCCTTCAAGTTGTGCTTTCATAAGCG  
 GGACTTCATTCTGGCAAGTGGATCATTGACAATATCATTGACTCCATTGAAAAGAGCCACAAAACCTGTC  
 TTTGTGCTTTCTGAAAACCTTTGTGAAGAGTGAGTGGTGAAGTATGAACTGGACTTCTCCATTTCCGTC  
 TTTTGTGATGAGAACATGATGCTGCCATTCTATTCTTCTGGAGCCATTGAGAAAAAGCCATTTCCCA  
 GCGCTTCTGCAAGCTGCGGAAGATAATGAACACCAAGACCTACCTGGAGTGGCCATGGACGAGGCTCAG  
 CGGAAGGATTTGGGTAATCTGAGAGCTGCGATAAAGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC207597 protein sequence  
Red=Cloning site Green=Tags(s)

MPHTLWMVWVLGVIIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNS  
DLQRCVNLQALVLTNGINTIEEDSFSSLSLEHLDSLNYLSNLSSSWFKPLSSLTFLNLLGNPYKTLG  
ETSLFSLHTKLQILRVGNMDFTKIQRKDFAGLTFLEELEIDASDLQSYEPKSLKSIQNVSHLILHMKQH  
ILLLEIFVDVTSSVECLELRDLDLDFHFSELSTGETNSLIKKFTFRNVKITDESLFQVMKLLNQISGLL  
ELEFDDCTLNGVGNFRASDNRVIDPGKVETLTIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFL  
VPCLLSQHLKSLEYLDLSENLMVEEYLNKNSACEDAWPSLQTLILRQNHLSLEKTGETLLTLKNLTNIDI  
SKNSFHSMPETCQWPEKMKYLNLSSTRIHSVTGCIPKLEILDVSNNNLNLFSNLNPQLKELYISRNKLM  
TLPDASLLPMLLVKISRNAITTFKEQLDSFHTLKTLEAGGNFICSCFLSFTQEQQALAKVLIDWPA  
NYLCDSPSHVRGQQVQDVRLSVSECHRTALVSGMCCALFLLILLTGVLCHRFHGLWYMKMMWAWLQAKRK  
PRKAPSRNICYDAFVSYSERDAYWVENLMVQELFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTV  
FVLSNFVKSEWCKYELDFSHFRLFDENNDAAIILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEAQ  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

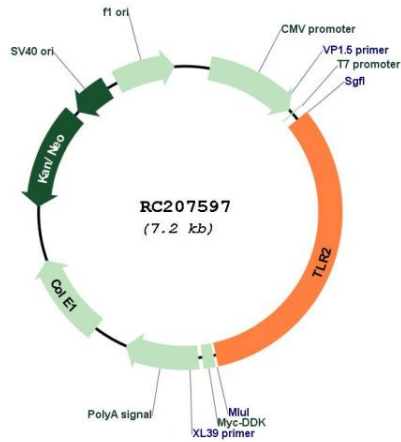
**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6237\\_a05.zip](https://cdn.origene.com/chromatograms/mk6237_a05.zip)

**Restriction Sites:** Sgfl-Mlul

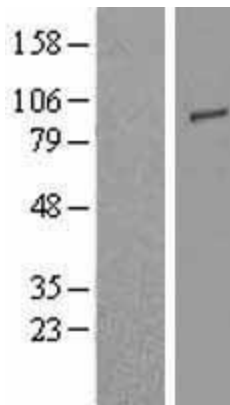


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_003264.5</a>
<b>RefSeq Size:</b>	3417 bp
<b>RefSeq ORF:</b>	2355 bp
<b>Locus ID:</b>	7097
<b>UniProt ID:</b>	<a href="#">O60603</a>
<b>Cytogenetics:</b>	4q31.3
<b>Domains:</b>	TIR, LRRCT, LRR, LRR_TYP, LRR_BAC, LRR_PS
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Toll-like receptor signaling pathway
<b>MW:</b>	89.8 kDa
<b>Gene Summary:</b>	<p>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. This protein is a cell-surface protein that can form heterodimers with other TLR family members to recognize conserved molecules derived from microorganisms known as pathogen-associated molecular patterns (PAMPs). Activation of TLRs by PAMPs leads to an up-regulation of signaling pathways to modulate the host's inflammatory response. This gene is also thought to promote apoptosis in response to bacterial lipoproteins. This gene has been implicated in the pathogenesis of several autoimmune diseases. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]</p>

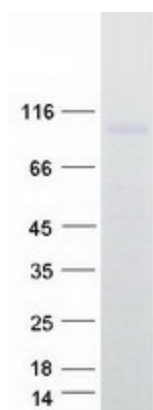
Product images:



Circular map for RC207597



Western blot validation of overexpression lysate (Cat# [LY418800]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207597 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TLR2 protein (Cat# [TP307597]). The protein was produced from HEK293T cells transfected with TLR2 cDNA clone (Cat# RC207597) using MegaTran 2.0 (Cat# [TT210002]).