

Product datasheet for **RG207597**

TLR2 (NM_003264) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR2 (NM_003264) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLR2
Synonyms:	CD282; TIL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG207597 representing NM_003264
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCACATACTTTGTGGATGGTGTGGGTCTTGGGGTCAATCATCAGCCTCTCCAAGGAAGAATCCTCCA
ATCAGGCTTCTCTGTCTGTGACCGCAATGGTATCTGCAAGGGCAGCTCAGGATCTTTAAACTCCATTCC
CTCAGGGCTCACAGAAGCTGTAAAAAGCCTTGACCTGTCCAACAACAGGATCACCTACATTAGCAACAGT
GACCTACAGAGGTGTGTGAACCTCCAGGCTCTGGTGTGACATCCAATGGAATTAACACAATAGAGGAAG
ATTCTTTTTCTCCCTGGGCAGTCTTGAACATTTAGACTTATCCTATAATTACTTATCTAATTTATCGTC
TTCCTGGTTCAAGCCCTTTCTTCTTAACTTAACTTACTGGAAATCCTTACAAAACCTAGGG
GAAACATCTTTTTTCTCATCTCAAAAATTGCAAACTCTGAGAGTGGGAAATATGGACACCTTCACTA
AGATTCAAAGAAAAGATTTTGTGGACTACCTTCTTGGAGAACTTGGATTGATGCTTCAGATCTACA
GAGCTATGAGCCAAAAGTTTGAAGTCAATTCAGAACGTAAGTCATCTGATCCTTCATATGAAGCAGCAT
ATTTTACTGCTGGAGATTTTGTAGATGTTACAAGTTCGGTGAATGTTTGAAGTGCAGATACTGATT
TGGACACTTTCCATTTTTCAGAACTATCCACTGGTGAACAAAATTCATTGATTAAGTTTACATTTAG
AAATGTGAAAATCACCGATGAAAGTTTGTTCAGGTTATGAAACTTTTGAATCAGATTTCTGGATTGTA
GAATTAGAGTTTGTGACTGTACCTTAATGGAGTTGGTAATTTTAGAGCATCTGATAATGACAGAGTTA
TAGATCCAGGTAAGTGGAAACGTTAACAATCCGGAGGCTGCATATTCGAAGTTTACTTATTTTATGA
TCTGAGCACTTATATCACTTACAGAAAGAGTTAAAAGAATCACAGTAGAAAACAGTAAAGTTTTCTG
GTTCTTGTACTTTTCAACAATTTAAAATCATTAGAATACTTGGATCTCAGTAAAAATTTGATGGTTG
AAGAATACTTAAAAATTCAGCCTGTGAGGATGCCTGGCCCTCTCAAAAATTTAATTTAAGGCAAAA
TCAATTTGGCATCATTGGAAAAAACCGGAGAGACTTTGCTCACTCTGAAAAACTTGACTAACATTGATATC
AGTAAGAATAGTTTTTCTATGCCTGAACTTGTGAGTGGCCAGAAAAGATGAAATATTTGAACTTAT
CCAGCACACGAATACACAGTGTAAACAGGCTGCATTCCTCAAGACTGGAATTTTAGATGTTAGCAACA
CAATCTCAATTTATTTCTTGAATTTGCCGCACTCAAAGAATTTATATTTCCAGAAATAAGTTGATG
ACTCTACCAGATGCCTCCCTCTTACCCATGTTACTAGTATTGAAAATCAGTAGGAATGCAATAACTACGT
TTTCTAAGGAGCAACTTGACTCATTTCACACACTGAAGACTTTGGAAGCTGGTGGCAATAACTTCATTTG
CTCCTGTGAATTCCTCTCCTTCACTCAGGAGCAGCAAGCACTGGCCAAAGTCTTGATTGATTGGCCAGCA
AATTACCTGTGTGACTCTCCATCCATGTGCGTGGCCAGCAGGTTTCAGGATGTCCGCTCTCGGTGTCCG
AATGTCACAGGACAGCACTGGTGTCTGGCATGTGCTGTGCTCTGTTCTGCTGATCCTGCTCACGGGGT
CCTGTGCCACCGTTTCCATGGCCTGTGGTATATGAAAATGATGTGGGCCTGGCTCCAGGCCAAAAGGAAG
CCCAGGAAAGCTCCCAGCAGGAACATCTGCTATGATGCATTTGTTTCTTACAGTGAAGGGGATGCCTACT
GGGTGGAGAACCTTATGGTCCAGGAGCTGGAGAATTCATCCCCCTTCAAGTTGTGCTTTCATAAGCG
GGACTTCATTCTGGCAAGTGGATCATTGACAATATCATTGACTCCATTGAAAAGAGCCACAAAATGTC
TTTTGTCTTTCTGAAAATTTGTGAAGAGTGAAGTGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TTTTTGATGAGAACATGATGCTGCCATTCTATTCTTCTGGAGCCATTGAGAAAAAGCCATTCCCA
GCGCTTCTGCAAGCTGCGGAAGATAATGAACACCAAGACCTACCTGGAGTGGCCATGGACGAGGCTCAG
CGGGAAGGATTTGGGTAATCTGAGAGCTGCGATAAAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

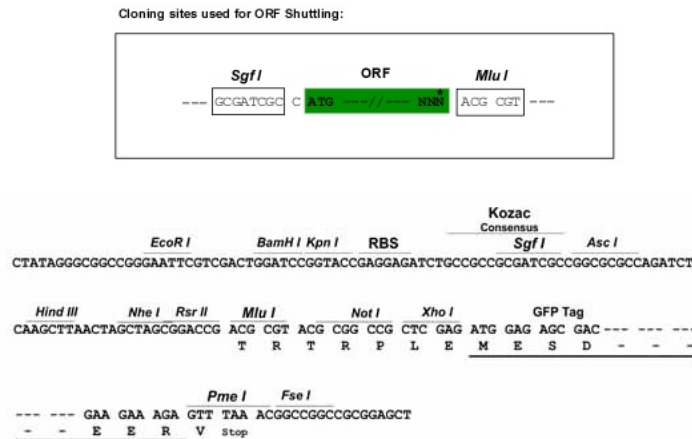
Protein Sequence: >RG207597 representing NM_003264
Red=Cloning site Green=Tags(s)

MPHTLWMVWLVGVIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNS
 DLQRCVNLQALVLTSGINTIEEDSFSSLSLEHLDSLNYLNLSSSWFKPLSSLTFLNLLGNPYKTLG
 ETSLSFSLHTKLQILRVGNMDFTKIQRKDFAGLTFLEELEIDASDLQSYEPKSLKSIQNVSHLILHMKQH
 ILLLEIFVDVTSSVECLELRDLDLDFHFSELSTGETNSLIKKFTFRNVKITDESLSFQVMKLLNQISGLL
 ELEFDCTLNGVGNFRASDNDRIDPGKVETLTIIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFL
 VPCLLSQHLKSLEYLDLSENLMVEEYLNKSACEDAWPSLQTLILRQNHLSLEKTGETLLTLKNLTNIDI
 SKNSFHSMPETCQWPEKMKYLNLSSTRIHSVTGCIPKLEILDVSNLNLNLSLNLPLQKELYISRNKLM
 TLPDASLLPMLLVKISRNAITTFKEQLDSFHTLKTLEAGNNFICSCFELSFTQEQQALAKVLIDWPA
 NYLCDSPSHVRGQVQDVRLSVSECHRTALVSGMCCALFLLILLTGVLCHRHFGLWYMKMMWAWLQAKRK
 PRKAPSRNICYDAFVSYSERDAYWVENLMVQELFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTV
 FVLSNFVKSEWKYELDFSHFRLFDENNDAAAILLLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEAQ
 REGFWVNLRAAIKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003264

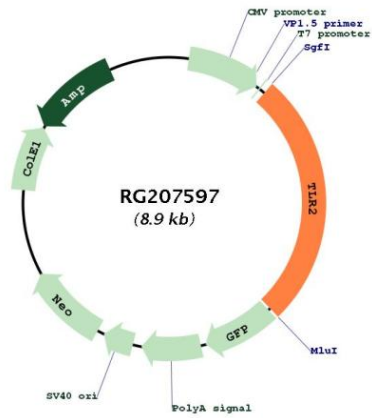
ORF Size: 2352 bp

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:	<ol style="list-style-type: none">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:	<u>NM_003264.3, NP_003255.2</u>
RefSeq Size:	3417 bp
RefSeq ORF:	2355 bp
Locus ID:	7097
UniProt ID:	<u>O60603</u>
Cytogenetics:	4q31.3
Domains:	TIR, LRRCT, LRR, LRR_TYP, LRR_BAC, LRR_PS
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Toll-like receptor signaling pathway
Gene Summary:	<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 RG207597