

Product datasheet for **RG215218**

TLR1 (NM_003263) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | TLR1 (NM_003263) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | TLR1 |
| Synonyms: | CD281; rsc786; TIL; TIL. LPRS5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RG215218 representing NM_003263
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTAGCATCTTCCATTTTCCATTATCTTCATGTTAATACTTCAGATCAGAATACAATTATCTGAAG
AAAGTGAATTTTATGTTGATAGGTCAAAAAACGGTCTCATCCACGTTCTAAAGACCTATCCAGAAAAAC
AACAACTTAAATATATCGCAAAATTATATCTGAGCTTTGGACTTCTGACATCTTACTCTGTCAAAA
CTGAGGATTTTGATAATTTCTCATAATAGAATCCAGTATCTTGATATCAGTGTCTTCAAATCAACCAGG
AATTGGAATACTTGGATTTGTCCACAACAAGTTGGTGAAGATTTCTTGCACCCCTACTGTGAACCTCAA
GCACTTGGACCTGTCATTTAATGCATTTGATGCCCTGCCTATATGCAAAGAGTTTGGCAATATGTCTCAA
CTAAAAATTTCTGGGGTTGAGCACCACACTTAGAAAAATCTAGTGTGCTGCCAATTGTCTATTTGAATA
TCAGCAAGGTCTTGTGGTCTTAGGAGAGACTTATGGGGAAAAAGAAGACCCTGAGGGCCTTCAAGACTT
TAACACTGAGAGTCTGCACATTGTGTTCCCAACAACAAGAATTCATTTTATTTGGATGTGTCAGTC
AAGACTGTAGCAATCTGGAATCTAATATCAAATGTGTGCTAGAAGATAACAATGTTCTTACTTCC
TAAGTATTCTGGCGAAACTTCAAACAAATCCAAAGTTATCAAATCTTACCTTAAACAACATTGAAACAAC
TTGGAATCTTTTATTAGGATCCTCCAGCTGGTTTGGCATACTGATGGTATTTCTCAATTTCAAAC
GTGAAGCTACAGGGTCACTGGACTTCAGAGATTTTATTCTGGCACTTCTTGAAGGCCTTGTCTA
TACACCAAGTTGTGAGGATGTGTTCCGTTTTCCGCAAAGTTATATCTATGAAATCTTTTCAATATGAA
CATCAAAATTTACAGTGTCTGGTACACGCATGGTCCACATGCTTTGCCATCCAAATTAGCCCGTTC
CTGCATTTGGATTTTCAATAATCTCTAACAGACACGGTTTTTGAATAATGTGGGCACCTTACTGAGT
TGGAGACACTTATTTTCAAATGAATCAATTAAGAAGACTTTCAAATAAGCTGAAATGACTACACAGAT
GAAGTCTCTGCAACAATTGGATATTAGCCAGAATTCTGTAAGCTATGATGAAAAGAAAGGAGACTGTTCT
TGGACTAAAAGTTTATTAAGTTTAAATATGCTTCAAATATACTTACTGACACTATTTTTCAGATGTTTAC
CTCCCAGGATCAAGTACTTGTCTTACAGCAATAAAAATAAAGAGCATTCTAAACAAGTCGTAATAACT
GGAAGCTTTGCAAGAACTCAATGTTGCTTTCAATCTTTAACTGACCTTCTGGATGTGGCAGCTTTAGC
AGCCTTTCTGATTGATCATTGATCACAATTCAGTTTCCACCCATCGGCTGATTTCTTCCAGAGCTGCC
AGAAGATGAGGTCAATAAAAAGCAGGGGACAATCCATTCCAATGTACCTGTGAGCTAGGAGAAATTTGTCAA
AAATATAGACCAAGTATCAAGTGAAGTGTAGAGGGCTGGCTGATTCTTATAAGTGTGACTACCCGGAA
AGTTATAGAGGAACCCTACTAAAGGACTTTCACATGTCTGAATTATCCTGCAACATAACTCTGCTGATCG
TCACCATCGTTGCCACCATGCTGGTGTGGCTGTGACTGTGACCTCCCTCTGCAGCTACTTGGATCTGCC
CTGGTATCTCAGGATGGTGTGCCAGTGGACCCAGACCCGGCGCAGGGCCAGGAACATACCCTTAGAAGAA
CTCCAAAGAAATCTCCAGTTTATGCAATTTATTTATATAGTGGGCACGATTTCTTCTGGGTGAAGAATG
AATTATTGCCAAACCTAGAGAAAGAAGGTATGCAGATTTGCCTTCATGAGAGAACTTTGTTCTGGCAA
GAGCATTGTGGAAAAATATCATCACCTGCATTGAGAAGAGTTACAAGTCCATCTTTGTTTTGTCTCCCAAC
TTTGTCCAGAGTGAATGGTGCCATTATGAATCTACTTTGCCATCACAATCTCTTTTATGAAGGATCTA
ATAGCTTAATCCTGATCTTGTGGAACCCATTCGCAGTACTCCATTCTAGCAGTTATCACAAGCTCAA
AAGTCTCATGGCCAGGAGACTTATTTGGAATGGCCAAAGAAAAGAGCAAAACGTGGCCTTTTTTGGGCT
AACTTAAGGGCAGCCATTAATATTAAGCTGACAGAGCAAGCAAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215218 representing NM_003263
Red=Cloning site Green=Tags(s)

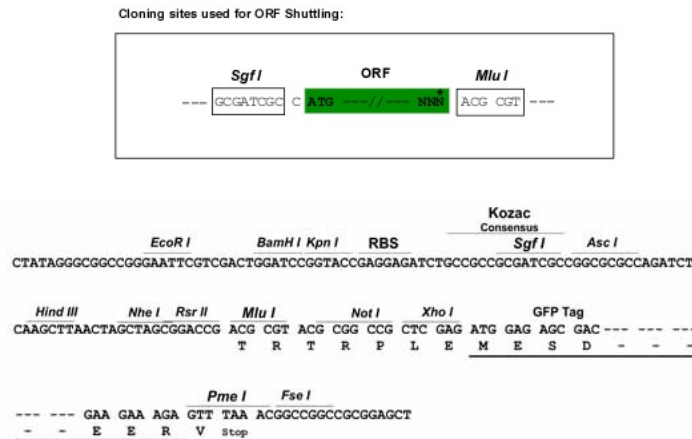
```

MTSIFHFIAIFMLILQIRIQLSESEFLVDRSKNGLIHVPKDL SQKTTILNISQNYISELWTS DILSLSK
LRILIIISHNRIQYLDISVFKFNQLEYLDL SHNKLVKISCHPTVNLKHLDL SFNAFDALPICKEFGNMSQ
LKFLGLSTHLEKSSVLPPIAHLNISKVLLVLGETYGEKEDPEGLQDFNTESLHIVFTPNKEFHFI LDVSV
KTVANLELSNIKCYLEDNKCSYFLSILAKLQTNPKLSNL TLNNIETTWN SFIRILQLVWHTTVWYFSISN
VKLQGGQLDFRDFDYSGLKALS IHQVSDVFGFPQSYIYE IFSNMNIKNFTVSGTRMVHMLCPSKISPF
LHLDFSNNLLTDTVFENCGLHTELETL ILQMNQLKELSKIAEMTTQM KSLQQLDISQNSVSYDEKKGDCS
WTKSLLSLNMSSNILTDTIFRCLPPRIKVL DLHSNKIKSIPKQVVKLEALQELN VAFNSLTDLPGCGSFS
SLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNP FQCTCELGEFVKNI DQVSSEVLEGW PDSYKCDYPE
SYRGTLLKDFHMSSELSCNITLLIVTIVATML VLAVTVTSLCSYLDL PWYLRMVCQWTQTRRRARNIP LEE
LQRNLQFHAFISYSGHDSFWVKNELLPNLEKEGM QICLHERNFVPGKSIVENIITCIEKSYKSIFV LSPN
FVQSEWCHYELYFAHHNLFHEGSNSLILILLEPI QYSIPSSYHKLKSLMARRTYLEWPKEKSKRGLFWA
NLRAAINIKLTEQAKK
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003263

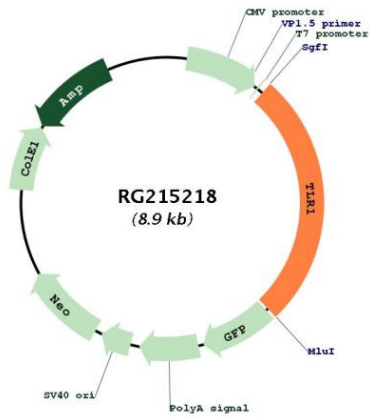
ORF Size: 2358 bp

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: | NM_003263.4 |
| RefSeq Size: | 2867 bp |
| RefSeq ORF: | 2361 bp |
| Locus ID: | 7096 |
| UniProt ID: | Q15399 |
| Cytogenetics: | 4p14 |
| Domains: | TIR, LRRCT, LRR, LRR_TYP |
| 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. 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 ubiquitously expressed, and at higher levels than other TLR genes. Different length transcripts presumably resulting from use of alternative polyadenylation site, and/or from alternative splicing, have been noted for this gene. [provided by RefSeq, Jul 2008]</p> |

Product images:



Circular map for RG215218