

Product datasheet for **RG207510**

TLR9 (NM_017442) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR9 (NM_017442) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLR9
Synonyms:	CD289
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207510 representing NM_017442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTTTCTGCCGACGCCCTGCACCCGCTGTCTCCTGGTGCAGGCCATCATGCTGGCCATGACCC
TGGCCCTGGGTACCTTGCTGCCTTCTACCCTGTGAGCTCCAGCCCCACGGCCTGGTGAAGTCAACTG
GCTGTTCTGAAGTCTGTGCCCACTTCCATGGCAGCACCCCGTGGCAATGTCACCAGCCTTTCCTTG
TCCTCAAACCGCATCCACCACCTCCATGATTCTGACTTTGCCACCTGCCAGCCTGCGGCATCTCAACC
TCAAGTGAAGTGCCTCGGTTGGCCTCAGCCCCATGCACCTCCCTGCCACATGACCATCGAGCCAG
CACCTTCTGGCTGTGCCACCCTGGAAGAGCTAAACCTGAGCTACAACAACATCATGACTGTGCCTGCG
CTGCCAAATCCCTCATATCCCTGTCCCTCAGCCATACCAACATCCTGATGCTAGACTCTGCCAGCCTCG
CCGGCCTGCATGCCCTGCGCTTCTATTTCATGGACGGCAACTGTTATTACAAGAACCCTGCAGGCAAGC
ACTGGAGGTGGCCCCGGGTGCCCTCCTTGGCCTGGGCAACCTCACCCACCTGTCACCTCAAGTACAACAAC
CTCACTGTGGTGGCCCGCAACCTGCCTCCAGCCTGGAGTATCTGCTGTTGCTCTACAACCGCATCGTCA
AACTGGCGCTGAGGACCTGGCCAATCTGACCGCCCTGCGTGTGCTCGATGTGGGCGGAAATTGCCGCCG
CTGCGACCACGCTCCCAACCCCTGCATGGAGTGCCTCGTCACTTCCCCAGCTACATCCCGATACCTTC
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 GCTCCCAGTTCTGCCGCTGACCGGTCTGCAGGTGCTAGACCTGTCCCACAATAAGCTGGACCTCTACCA
 CGAGCACTCATTACGGAGCTACCACGACTGGAGGCCCTGGACCTCAGCTACAACAGCCAGCCCTTTGGC
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 CCTGCTGGAGGACCGCAAGGACGTGCTGGTGTGGTGTCTTGCAGCCCTGACGGCCGCGCTCCCCTAC
 GTGCGGCTGCCAGCGCCTCTGCCGCCAGAGTGTCTCTCTGGCCCCACCAGCCAGTGGTCAAGCGCA
 GCTTCTGGGCCAGCTGGGCATGGCCCTGACCAGGGACAACCACCCTTCTATAACCGGAACTTCTGCCA
 GGGACCCACGGCCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG207510 representing NM_017442
 Red=Cloning site Green=Tags(s)

MGFCRSALHPLSLLVQAIMLAMTLALGTLPAFLPCELQPHGLVNCNWLFLKSVPHFSMAAPRGNVTSLSL
 SSNRIHHLHDSDFAHLPRLNLKWNCPVGLSPMHFPCMTIEPSTFLAVPTLEELNLSYNNIMTVPA
 LPKSLISLSHTNIMLDSASLAGLHALRFLFMDGNCYKNPCRQALEVAPGALLGLGNLTHLSLKYNN
 LTVVPRNLPSSLEYLLLSYNRIVKLAPEDLANLTALRVLVGGNCRCDHAPNPCMECPRHFPQLHPDTF
 SHLSRLEGLVLKSSLSWLNASWFRGLGNLRVLDLSENFYKCI TKTKAFQGLTQLRKLNL SFNYQKRVS
 FAHLSLAPSFGLVALKELDMHGIFFRSLDETLRPLARLPMLQTLRLQMNFINQAQLGIFRAFPGLRYV
 DLSDNRI SGASELTATMGEADGGEKVLQPGDLAPAPVDTPSSEDFRPNCSLNF TLDL SRNNLVTVQPE
 MFAQLSHLQCLRLSHNCISQAVNGSQFLPLTGLQVLDL SHNKL DLYHEHSFTELPRLEALDLSYNSQPF
 MQGVGHNF SFVAHLRTRLRHL SLAHNNIHSQVSQQLCSTSLRALDFSGNALGHMWAEGDLYLHFFQGLSGL
 IWLDLSQNLHTLLPQTLRNLPKSLQVLRRLRDNYLAFFKWWSLHFLPKLEVLDLAGNQLKALTNGSLPAG
 TRLRRLDVSCNSISFVAPGFFSKAKELRELNLSANALKTVDHSWFGLASALQILDV SANPLHCACGAFF
 MDFLLEVQAAVPLPSRVKCGSPGQLQGLSIFAQDLRLCLDEALSWDCFAL SLLAVALGLGVPMLHHL CG
 WDLWYCFHLCLAWLPWRGRQSGRDEDALPYDAFVVDKTS AVADWVYNELRGQLEECRGRWALRLCLEE
 RDWLPKTLFENLWASVYGSRKTLFVL AHTDRVSGLLRASFLLAQQRLL EDKDVVVLVILSPDGRRSRY
 VRLRQLCRQSVLLWPHQPSGQSFWAQLGMALTRDNHFFYNRNFCQGPTAE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017442

ORF Size: 3096 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.

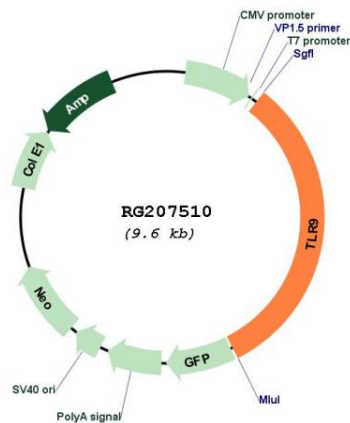
RefSeq: [NM_017442.1](#)

RefSeq Size: 3868 bp

RefSeq ORF: 3099 bp

Locus ID: 54106
UniProt ID: [Q9NR96](#)
Cytogenetics: 3p21.2
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Toll-like receptor signaling pathway
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. Studies in mice and human indicate that this receptor mediates cellular response to unmethylated CpG dinucleotides in bacterial DNA to mount an innate immune response. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG207510