

## Product datasheet for **RG215761**

### TLR6 (NM\_006068) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TLR6 (NM_006068) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TLR6
Synonyms:	CD286
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215761 representing NM\_006068  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCAAAGACAAAGAACCTATTGTTAAAAGCTTCCATTTTGTTCCTTATGATCATAATAGTTGGAA  
 CCAGAATCCAGTTCTCCGACGGAATGAATTTGCAGTAGACAAGTCAAAAAGAGGTCTTATTCATGTTCC  
 AAAAGACCTACCCTGAAAACCAAAGTCTTAGATATGTCTCAGAACTACATCGCTGAGCTTCAGGTCTCT  
 GACATGAGCTTTCTATCAGAGTTGACAGTTTTGAGACTTTCCATAACAGAATCCAGCTACTTGATTTAA  
 GTGTTTTCAAGTCAACCAGGATTTAGAATATTTGGATTATCTCATAATCAGTTGCAAAAAGATACCTG  
 CCATCCTATTGTGAGTTTCAGGCATTTAGATCTCTCATTCAATGATTTCAAGGCCCTGCCATCTGTAAG  
 GAATTTGGCAACTATCACAACTGAATTTCTGGGATTGAGTGTATGAAGCTGCAAAAATTAGATTTGC  
 TGCCAATTGCTCACTTGCATCTAAGTTATATCCTTCTGGATTTAAGAAATTTATATATAAAAGAAAATGA  
 GACAGAAAAGTCTACAAATCTGAATGCAAAAACCTTCCACTTGTTTTTACCCAAGTATTTATTCGCT  
 ATCCAAGTGAACATATCAGTTAATACTTTAGGGTGTCTACAAGTACTAATATAAATTTGAATGATGACA  
 ACTGTCAAGTTTTCAATTAATTTTTATCAGAAGTCAACCTTACTGAATTTTACCCTCAA  
 CCATAGAAAAGACTTGGAAATGCCTGGTCAGAGTCTTCAATTTCTTTGGCCAAAACCTGTGGAATAT  
 CTCAATATTTACAATTTAAACAATAATTGAAAGCATTTCGTGAAGAAGATTTTACTTATTCTAAAACGACAT  
 TGAAAGCATTGACAATAGAACATATCACGAACCAAGTTTTTCTGTTTTACAGACAGCTTTGTACACCGT  
 GTTTTCTGAGATGAACATTATGATGTTAACCATTTAGATACACCTTTTATACACATGCTGTGCTCAT  
 GCACCAAGCACATTCAAGTTTTGAAGTCTTACAAAAAATGGATTAAGAACCTTTTCAAAGTAGGTCT  
 CATGACGAAGGATATGCCTTCTTTGAAAATACTGGATGTTAGCTGGAAGTCTTTGGAATCTGGTAGACAT  
 AAAGAAAAGTGCCTTGGTTGAGAGTATAGTGGTGTAAATTTGTCTTCAAATATGCTTACTGACTCTG  
 TTTTCAGATGTTTACCTCCCAGGATCAAGTACTTGATCTTACAGCAATAAAATAAAGAGCGTTCTCTAA  
 ACAAGTCGTAATAACTGGAAGCTTTGCAAGAAGTCAATGTTGCTTTCAATTTTAACTGACCTTCTGGA  
 TGTGGCAGCTTTAGCAGCCTTTCTGTATTGATCATTGATCACAATTCAGTTTCCCACCCATCGGCTGATT  
 TCTTCCAGAGCTGCCAGAAGATGAGGTCAATAAAGCAGGGGACAATCCATTCATGTACCTGTGAGCT  
 AAGAGAATTTGTCAAAAATATAGACCAAGTATCAAGTGAAGTGTAGAGGGCTGGCTGATTCTTATAAG  
 TGTGACTACCCAGAAAGTTATAGAGGAAGCCACTAAAGGACTTTCACATGTCTGAATTATCCTGCAACA  
 TAACTCTGCTGATCGTCAACATCGGTGCCACCATGCTGGTGTGGCTGTGACTGTGACCTCCCTCTGCAT  
 CTACTTGGATCTGCCCTGGTATCTCAGGATGGTGTGCCAGTGGACCCAGACTCGGCGCAGGGCCAGGAAC  
 ATACCCTTAGAAGAACTCAAAGAAACCTCCAGTTTTCATGCTTTTATTTTCATATAGTGAACATGATTCTG  
 CCTGGGTGAAAAGTGAATTTGGTACCTTACCTAGAAAAAGAAGATATACAGATTTGTCTTCATGAGAGGAA  
 CTTTGTCCCTGGCAAGAGCATTGTGAAAATATCATCAACTGCATTGAGAAGAGTTACAAGTCCATCTTT  
 GTTTTGTCTCCCAACTTTGTCCAGAGTGTGGTGGCCATTACGAAGTCTATTTTGGCCATCACAATCTCT  
 TTCATGAAGGATCTAATAACTTAATCCTCATCTTACTGGAACCCATTCCACAGAACAGCATTCCCAACAA  
 GTACCACAAGCTGAAGGCTCTCATGACGCAGCGGACTTATTTGCAGTGGCCCAAGGAGAAAAGCAAACGT  
 GGGCTCTTTTGGGCTAACATTAGAGCCGCTTTTAAATATGAAATTAACACTAGTCACTGAAAACAATGATG  
 TGAATCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG215761 representing NM\_006068  
Red=Cloning site Green=Tags(s)

MTKDKEPIVKSFFHFVCLMIIIVGTRIQFSDGNEFAVDKSKRGLIHVPKDLPLKTKVLDMSQNYIAELQVS  
DMSFSELTVLRLSHNRIQLLDLSVFKFNQDLEYLDLSHNQLQKISCHPIVSFRHLDLSFNDFKALPICK  
EFGNLSQLNFLGLSAMKLGKLDLLPIAHLHLSYILLDLRNYIYIKENETESLQILNAKTLHLVFHPTSLFA  
IQVNISVNTLGCLQLTNIKLNDNCQVFIKFLSELTRGSTLLNFTLNHIETT WKCLVRVFQFLWPKPVEY  
LNIYNLTIIIESIREEDFTYSKTTLKALTEHITNQVFLFSQTALYTVFSEMNMMLTISDTPFIHMLCPH  
APSTFKFLNFTQNVFTDSIFEKCSLTVKLETILQKNGLKDLFKVGLMTKDMPSLEILDVSWNSLESGRH  
KENCTWVESIVVLNLSNMLTDSVFRCLPPRIKVLDLHSNKIKSVPKQVVKLEALQELNVAFNSLTDLPG  
CGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNPQCTCELREFVKNIDQVSSEVLEGWPD SYK  
CDYPESYRGSPLKDFHMSSELSCNITLLIVTIGATMLVLAVTVTSLCIYLDLPWYLRMVCQWTQTRRRARN  
IPL EELQRNLQFHAFISYSEHDSAWVKSELVPYLEKEDIQICLHERNFVPGKSIVENIINCIEKSYKSIF  
VLSPNFVQSEWCHYELYFAHNLFHEGSNNLILILLEPIPQNSIPNKYHKLKALMTQRTYLQWPKEKSKR  
GLFWANIRAAAFNMKLT LVTENNDVKS

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_006068

ORF Size: 2388 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\\_006068.2](#), [NP\\_006059.2](#)

**RefSeq Size:** 2753 bp

**RefSeq ORF:** 2391 bp

**Locus ID:** 10333

**UniProt ID:** [Q9Y2C9](#)

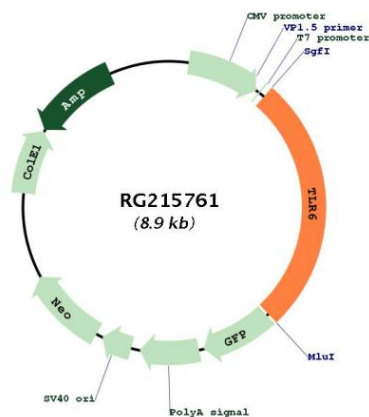
**Cytogenetics:** 4p14

**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. The various TLRs exhibit different patterns of expression. This receptor functionally interacts with toll-like receptor 2 to mediate cellular response to bacterial lipoproteins. A Ser249Pro polymorphism in the extracellular domain of the encoded protein may be associated with an increased of asthma in some populations.[provided by RefSeq, Jan 2011]

### Product images:



Circular map for RG215761

