

## Product datasheet for **MG225590**

### **Tlr5 (NM\_016928) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tlr5 (NM_016928) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tlr5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG225590 representing NM\_016928  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGCTGAGTCCCCACGCACCACACTTCAGCAGGATCATGGCATGTCAACTTGACTTGCTCATAG  
 GTGTGATCTTCATGGCCAGCCCCGTGTTGGTAATATCTCCCTGTTCTTCAGACGGCAGGATAGCCTTTTT  
 CCGAGGCTGTAACCTCACCCAGATTCCCTGGATCCTCAATACTACCACTGAGAGGCTCCTGCTCAGCTTC  
 AACTATATCAGTATGGTGGTTGCCACATCATTTCCACTCCTGGAGCGGCTCCAGTTGCTGGAGCTGGGGA  
 CCCAGTATGCTAACTTGACCATTGGTCCAGGGCTTTCAGAACTGCCCAATCTTAGGATCTTGACTT  
 GGGCCAAAGCCAGATCGAAGTCTTGAATCGAGATGCCTTCAAGGTCTGCCCATCTCTTGGAACTTCGG  
 CTGTTTTCTGTGACTCTCCAGTGTGTAAAGTACGGTTACTTCAGAAATCTATATTCATTAGCTC  
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 AAGCGACGTAAATTTTGGCTTCAACCAATATTCATATATGTGAAGATGAACTCGAGCCTTCGAGGGC  
 AAAACTGTCTTTCTTTGGCCTCAAATTAAGCTGTTCAGCAGAGTCTCTGTGGGCTGGGAGACAT  
 GCAGGAACCCCTTCAGAGGCGTGAGGCTAGAACTCTAGATCTTTCTGAAAATGGCTGGACGGTGGACAT  
 CACAAGGAACTTCAGCAACATCATCCAGGGAAGCCAGATTTCTCTTTGATTCTTAAACACCACATCATG  
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 CGGTGCTGCAACTGGACCTTCGCACGGCTTATCTTCTCCTTGAATCCTCGACTGTTGGGACTGAA  
 GGATTTGAAGATGCTGAACCTTGCTTCAACAAGATAACAAGATTGGAGAGAATGCCTTTATGGGCTT  
 GACAGCTCCAGGTTCTCAATCTATCTATAATCTTTGGGGAACTCTATAATCCAACCTCTATGGGC  
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 GAACAGCTTTTCTTACAGAGAATATGCTGCAGCTGGCCTGGGAGACCGGCTCTGTTGGGATGTTTTTC  
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 CTGGCTCAACCAACCAACGTCACCCTGTTCCGGCTCTCCTGCAGACGTGATTGCATGTACCCTAACTCA  
 CTGCTAGGGGGCTCCCTCTACAACATATCCACCGAAGACTGCGATGAAGAGGAAGCCATGCGGTCCCTAA  
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 GGCTGTTTTCTCGATAAACTCTCCGGATGCATTCTAAAGGAAGAAAAGGAAAAGAAAAGAAGCAGTTCCA  
 TCCAGTTGCGAACCATAGCAACCATTTCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG225590 representing NM\_016928  
 Red=Cloning site Green=Tags(s)

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MDAEFPHPHFSRIMACQLDLLIGVIFMASPVLVISPCCSDGRIAFFRGCNLTQIPWILNTTTERLLL SF
NYISMVATSFPLLERLQLELGTQYANLTIGPGAFRNLPNLRILDGQSQIEVLNRDAFQGLPHLLELR
LFSCGLSSAVLSDGYFRNLYSLARLDL SGNQIHSLRLHSSFRELNSLSDVNFAFNQIFTICEDELEPLQG
KTL SFFGLKLTCLFSRVS VGWETCRNPF RGVRLTDL SENGWTV DITRNF SNI IQGSQISSLILKHHIM
GPGFGFQNI RDPDQSTFASLARSSVLQLDL SHGFIFSLNPRLF GTLKDLKMLNLAFNKINKIGENAFYGL
DSLQVLNLSYNLLGELYNSNFYGLPRVAYVDLQRNHIGI IQDQTFRLKTLQTLDLRDNALKAIGFIPSI
QMVLLGGNKL VHLPHIHFTANFLELSENRENLS DLYFLLRVPQLQFLILNQNR LSSCKAAHTPSENPSL
EQLFLTENMLQLAWETGLCWDVFQGLSRLQILYLSNNYLNFLPPGIFNDLVALRMLSLSANKLTVLSPGS
LPANLEILDISRNLFS PDPALFSSLRVLDITHNEFVCNCELSTFISWLNQTNVTLFGSPADVYCMYPNS
LLGGSLYNISTEDCDEEEAMRSLKFSLFILCTVTLTFLVITLVVIKFRGICFLCYKTIQKLVFKDKVWS
LEPGAYRYDAYFCFSSKDFEWAQNALLKHLDAHYSRRNRLRLCFEERDFIPGENHISNIQA AVWGSRKTV
CLVSRHFLKDGWCLEAFRYAQSRSLS DLKSILIVVVVGSLSQYQLMRHETIRGFLQKQQLRWPEDLQDV
GWF LDKLSGCILKEEGKKRSSSIQLRTIATIS
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_016928

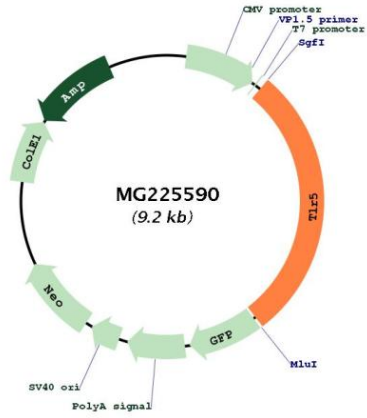
ORF Size: 2619 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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>RefSeq:</b>	<u><a href="#">NM_016928.2</a></u> , <u><a href="#">NP_058624.2</a></u>
<b>RefSeq Size:</b>	3211 bp
<b>RefSeq ORF:</b>	2622 bp
<b>Locus ID:</b>	53791
<b>UniProt ID:</b>	<u><a href="#">Q9JLF7</a></u>
<b>Cytogenetics:</b>	1 86.12 cM
<b>Gene Summary:</b>	Pattern recognition receptor (PRR) located on the cell surface that participates in the activation of innate immunity and inflammatory response. Recognizes small molecular motifs named pathogen-associated molecular pattern (PAMPs) expressed by pathogens and microbe-associated molecular patterns (MAMPs) usually expressed by resident microbiota. Upon ligand binding such as bacterial flagellins, recruits intracellular adapter proteins MYD88 and TRIF leading to NF-kappa-B activation, cytokine secretion and induction of the inflammatory response. Plays thereby an important role in the relationship between the intestinal epithelium and enteric microbes and contributes to the gut microbiota composition throughout life.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225590