

Product datasheet for **MG227542**

Tlr3 (NM_126166) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr3 (NM_126166) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tlr3
Synonyms:	AI957183
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227542 representing NM_126166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGGGTGTTCCTCTTATCTAATGTACTCCTTTGGGGGACTTTTGTCCCTATGGATTCTTCTGGTGT
 CTTCACAAACCAATGCACTGTGAGATACAACGTAGCTGACTGCAGCCATTTGAAGCTAACACACATACC
 TGATGATCTTCCCTCTAACATAACAGTGTGAATCTTACTCACAACCAACTCAGAAGATTACCACCTACC
 AACTTTACAAGATACAGCCAACCTGCTATCTTGGATGCAGGATTTAACTCCATTTCAAACCTGGAGCCAG
 AACTGTGCCAAATACTCCCTTTGTTGAAAGATTGAACCTGCAACATAATGAGCTCTCTCAGATTCTGA
 TCAAACCTTTGTCTTCTGCACGAACCTGACAGAACTCGATCTAATGTCTAACTCAATACAAAAATTA
 AGCAACCCCTTTCAAAAACCAGAAGATCTAATCAAATTAGATTTGTCTCATAATGGTTTATCATCTACAA
 AGTTGGGAACGGGGTCCAACCTGGAGAACCTCCAAGAAGTCTCTAGCAAAAAATGAAATCCTTGCCTT
 GCGAAGTGAAGAACTTGAGTTTCTTGGCAATTCTCTTTACGAAAGTTGGACTTGTCAATCCACTT
 AAAGAGTTCTCCCGGGGTGTTCCAGACAATTGGCAAGTTATTGCCCCTCTCTTGAACACGCCCAAC
 TGAACCCCACTCACAGAGAAGCTTGTCTGGGAACCTTCAAACACAAGCATCCAGAATCTCTCTGCGC
 TAACAACCAAGCTGCTGGCCACCAGCGAGAGCACTTTCTCTGGGCTGAAGTGGACAAATCTCACCCAGCTC
 GATCTTCTTCTACAACAACCTCCATGATGTCTGGCAACGGTTCCTTCTCCTATCTCCCAAGCCTGAGGTATC
 TGTCTCTGGAGTACAACAATATACAGCGTCTGTCCCTCGCTCTTTTATGGACTCTCAACCTGAGGTA
 CCTGAGTTTGAAGCGAGCATTTACTAAGCAAAGTGTTCACTTGTTCACATCCCAACATTGACGATTTT
 TCCTTTCAATGGTTAAAATATTTGGAATATCTCAACATGGATGACAATAATTTCCAAGTACCAAAAAGCA
 ATACCTTCACGGGATTGGTGAAGTCTGAAGTAACTAAGTCTTTCCAAAACCTTTCACAAGTTGCAAACCTT
 AACAAATGAAACATTTGTGTCATTGCTATTCTCCCTTGTCTCACTCTCAACTTAACGAAAAATCAGATC
 TCAAAAATAGCAATGGTACTTTCTCTTGGTTAGGCCAACTCAGGATACTTGATCTCGGCCCTTAATGAAA
 TTGAACAAAAACTCAGCGGCCAGGAATGGAGAGGTCTGAGAAATATATTTGAGATCTACCTATCTATAA
 CAAATACCTCCAACCTGTCTACCAGTTCCTTTGCATTGGTCCCCAGCCTTCAAAGACTGATGCTCAGGAGG
 GTGGCCCTTAAAAATGTGGATATCTCCCTTACCTTTCCGCCCTTTCGTAACCTGACCATTCTGGACT
 TAAGCAACAACAACATAGCCAACATAAATGAGGACTTGTGGAGGGTCTGAGAATCTAGAAATCCTGGA
 TTTTCAGCACAACTAGCCAGGCTCTGAAACCGCAAAACCCGGTGGTCCCGTTAATTTCTGAAG
 GGGCTGTCTCACCTCCACATCTGAATTTAGAGTCCAACGGCTTAGATGAAATCCAGTCCGGGTTTTCA
 AGAACTTATTCGAACTAAAGAGCATCAATCTAGGACTGAATAACTTAAACAACTTGAACCATTCATTTT
 TGATGACCAGACATCTCTAAGGTCACTGAACCTCCAGAAGAACCTCATAACATCTGTTGAGAAGGATGTT
 TTCGGGCCCTTTTCAAACCTGAACAGTTTGTAGATATGCGCTTCAATCCGTTGACTGCAGGTGTGAAA
 GTATTTCTGGTTTGTAACTGGATCAACCAGACCCACACTAATATCTCTGAGCTGTCCACTCACTACCT
 CTGTAACACTCCACATCATTATTTAGGCTTCCCCTGAAGCTTTTCGATACATCCTGTAAGACAGC
 GCCCTTTGAACTCCTCTTATAATCAGCACCAGTATGCTCCTGGTTTTTACTTGTGGTACTGCTCA
 TTCACATCGAGGGCTGGAGGATCTTTTTACTGGAATGTTTCAGTGCATCGGATTTTGGTTTCAAGGA
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 GTCTGGGAACATTTCTCCCAATGGAAGAACAAGACCAATCTCTCAAATTTTGCCTAGAAGAAAGGGACT
 TTGAAGCAGGCGTCTTGGACTTGAAGCAATTGTTAATAGCATCAAAAAGCCGAAAAATCATTTTCGT
 TATCACACACCATTTATTAAGACCCCTCTGTGCAGAAGATTCAAGGTACATCACGCAGTTCAGCAAGCT
 ATGAGCAAAATCTGGATTCAATTATACTGATTTTTCTCCAGAATATTCCAGATTATAAACTAAACCATG
 CACTCTGTTTGGGAAGAGGAATGTTAAATCTCATTGCATCTTGAAGTGGCCAGTTCAGAAAAGACGGAT
 AAATGCCTTTCATATAAATTGCAAGTAGCACTTGGATCTCGGAATTCAGCACAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG227542 representing NM_126166
 Red=Cloning site Green=Tags(s)

MKGCSSYLMYSFGGLLSLWILLVSSTNQCTVRYNVADCSHLKLT HIPDDLPSNITVLNLTHNQLRRLPPT
 NFTRYSQLAILDAGFNSISKLEPEL CQILPLLKVLNLQHNELSQISDQTFVFCTNL TELDLMSNSIHKIK
 SNPFKNQKNIKLDL SHNGLSSTKLGTVQLENLQELLAKNEILALRSEEF LGNSSLRKLDLSSNPL
 KEFSPGCFQTIGKLFALLLNNAQLNPHL TEKLCWEL SNTSIQNL SLANNQLLATSESTF SGLKWTNL TQL
 DLSYNNLHDVNGSFSYLP SLRYLSLEYNNIQRLSPRSFYGLSNLRYLSLKRAFTKQSVSLASHPNIDDF
 SFQWLKYLEYLNMDNNIPSTKSNTFTGLVSLKYL SLSKTFTSLQTL TNETFVSLAHSPLLTNLNLTKNHI
 SKIANGTFSWLGQLRILDGLNEIEQKLSGQEWRLRNIFEIYLSYNKYQLSTSSFALVPSLQRLMLRR
 VALKNVDISPPFRPLRNL TILDLSNNNIANINEDLLEGLNLEILD FQHNNLARLWKRANPGGPVNF LK
 GLSHLHILNLESNGLDEIPVGVFKNL FELKSINLGLNNLNKLEPFI FDDQTSLSLNLQKNLITSVEKDV
 FGPPFQNLNSLDMRFNPF DCTCESISWFVNWINQTH TNISELSTHYLCNTPHHYGFPLKLFDTSSCKDS
 APFELLFIISTSMLLV FIVVLLIHIEGWRI SFYWNVSVHRILGFKEIDTQAEQFEYTAYIIHAHKDRDW
 VWEHFSMEEQDQSLKFCLEERDFEAGVLGLEAIVNSIKRSRKIIFVITHHLLKDP LCRRFKVHHAVQQA
 IEQNLD SIIILIFLQNI PDYKLNHALCLRRGMFKSHCILNWPVQKERINAFH HKLQVALGSRNSAH

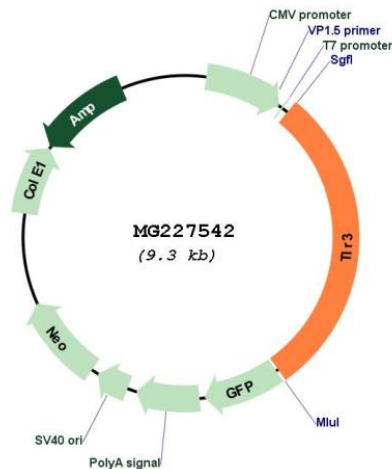
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_126166

ORF Size: 2715 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 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](#)

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_126166.4](#), [NP_569054.2](#)

RefSeq Size: 4327 bp

RefSeq ORF: 2718 bp

Locus ID: 142980

UniProt ID: [Q99MB1](#)

Cytogenetics: 8 B1.1

Gene Summary: Key component of innate and adaptive immunity. TLRs (Toll-like receptors) control host immune response against pathogens through recognition of molecular patterns specific to microorganisms. TLR3 is a nucleotide-sensing TLR which is activated by double-stranded RNA, a sign of viral infection. Acts via the adapter TRIF/TICAM1, leading to NF-kappa-B activation, IRF3 nuclear translocation, cytokine secretion and the inflammatory response (By similarity). [UniProtKB/Swiss-Prot Function]