

## Product datasheet for **MR227542**

### **Tlr3 (NM\_126166) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tlr3 (NM_126166) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlr3
Synonyms:	AI957183
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR227542 representing NM\_126166  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAGGGTGTTCCTCTTATCTAATGTACTCCTTTGGGGGACTTTTGTCCCTATGGATTCTTCTGGTGT  
 CTTCACAAACCAATGCACTGTGAGATACAACGTAGCTGACTGCAGCCATTTGAAGCTAACACACATACC  
 TGATGATCTTCCCTCTAACATAACAGTGTGAATCTTACTCACAAACCACTCAGAAGATTACCACCTACC  
 AACTTTACAAGATACAGCCAACCTGCTATCTTGGATGCAGGATTTAACTCCATTTCAAACTGGAGCCAG  
 AACTGTGCCAAACTACTCCCTTTGTTGAAAGTATTGAACCTGCAACATAATGAGCTCTCTCAGATTTCTGA  
 TCAAACCTTTGTCTTCTGCACGAACCTGACAGAACTCGATCTAATGTCTAACTCAATACAAAAATTA  
 AGCAACCCCTTTCAAAAACCAGAAGTCTAATCAAATTAGATTTGTCTCATAATGGTTTATCATCTACAA  
 AGTTGGGAACGGGGTCCAACCTGGAGAACCTCCAAGAAGTCTCTAGCAAAAAATAAACTCCTTGGCTT  
 GCGAAGTGAAGAACTTGAGTTTCTTGGCAATTCTCTTTACGAAAGTTGGACTTGCATCAAATCCACTT  
 AAAGAGTTCTCCCGGGGTGTTCCAGACAATTGGCAAGTTATTCGCCCTCCTCTTGAACACGCCCAAC  
 TGAACCCCACTCACAGAGAAGCTTGTCTGGGAACCTTCAAACACAAGCATCCAGAATCTCTCTCTGGC  
 TAACAACCACTGCTGGCCACCAGCGAGAGCACTTTCTCTGGGCTGAAGTGGACAAATCTCACCCAGCTC  
 GATCTTCTTCTACAACAACCTCCATGATGTCTGGCAACGGTTCCTTCTCCTATCTCCCAAGCCTGAGGTATC  
 TGTCTCTGGAGTACAACAATACACAGCTGTCTCCCTCGCTCTTTTATGGACTCTCAAACCTGAGGTA  
 CCTGAGTTTGAAGCGAGCATTTACTAAGCAAAGTGTTCCTTGCCTTACATCCCAACATTGACGATTTT  
 TCCTTTCAATGGTTAAAATATTTGGAATATCTCAACATGGATGACAATAATTTCCAAGTACCAAAAGCA  
 ATACCTTCACGGGATGGTGAAGTCTGAAGTAACTAAGTCTTTCAAACCTTTCAAAAGTTGCAAACCTTT  
 AACAAATGAAACATTTGTGTCATTGCTATTCTCCCTTGTCTCACTCAACTTAACGAAAAATCACATC  
 TCAAAAATAGCAATGGTACTTTCTCTTGGTTAGGCCAACTCAGGATACTTGATCTCGGCCTTAATGAAA  
 TTGAACAAAAACTCAGCGGCCAGGAATGGAGAGGTCTGAGAAATATATTTGAGATCTACCTATCCTATAA  
 CAAATACCTCCAACCTGTCTACCAGTTCCCTTGCATTGGTCCCCAGCCTTCAAAGACTGATGCTCAGGAGG  
 GTGGCCCTTAAAAATGTGGATATCTCCCTTACCTTTCCGCCCTTTCGTAACCTGACCATTCTGGACT  
 TAAGCAACAACAACATAGCCAACATAAATGAGGACTTGTCTGGAGGGTCTGAGAATCTAGAAATCCTGGA  
 TTTTCAGCACAACTAGCCAGGCTCTGAAACCGCAAAACCCGGTGGTCCCGTTAATTTCTGAAG  
 GGGCTGTCTCACCTCCACATCTGAATTTAGAGTCCAACGGCTTAGATGAAATCCAGTCCGGGTTTTCA  
 AGAACTTATTCGAACTAAAGAGCATCAATCTAGGACTGAATAACTTAAACAACTTGAACCATTCATTTT  
 TGATGACCAGACATCTCTAAGGTCACTGAACCTCCAGAAGAACCTCATAACATCTGTTGAGAAGGATGTT  
 TTCGGGCCCTTTTCAAACCTGAACAGTTTGTAGATATGCGCTTCAATCCGTTTCGACTGCAGGTGTGAAA  
 GTATTTCTGGTTTGTAACTGGATCAACCAGACCCACACTAATATCTCTGAGCTGTCCACTCACTACCT  
 CTGTAACACTCCACATCATTATTTAGGCTTCCCTTGAAGCTTTTCGATACATCCTGTAAGACAGC  
 GCCCTTTGAACTCCTCTTCAATCAGCACCAGTATGCTCCTGGTTTTTACTTGTGGTACTGCTCA  
 TTCACATCGAGGGCTGGAGGATCTTTTTACTGGAATGTTTCAGTGCATCGGATTTTGGTTTCAAGGA  
 AATAGACACACAGGCTGAGCAGTTTGAATATACAGCCTACATAATTCATGCCATAAAGACAGAGACTGG  
 GTCTGGGAACATTTCTCCCAATGGAAGAACAAGACCAATCTCTCAAATTTTGCCTAGAAGAAAGGGACT  
 TTGAAGCAGGCGTCTTGGACTTGAAGCAATTGTTAATAGCATCAAAAAGCCGAAAAATCATTTTCGT  
 TATCACACACCATTTATTAAGACCCCTCTGTGCAGAAGATTCAAGGTACATCACGCAGTTCAGCAAGCT  
 ATTGAGCAAAATCTGGATTCAATATACTGATTTTTCTCCAGAATATTCCAGATTATAAACTAAACCATG  
 CACTCTGTTTGGGAAGAGGAATGTTAAATCTCATTGCATCTTGAAGTGGCCAGTTCAGAAAAGACGGAT  
 AAATGCCTTTCATCAAATGCAAGTAGCACTGGATCTCGGAATTCAGCACAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227542 representing NM\_126166  
 Red=Cloning site Green=Tags(s)

MKGCSSYLMYSFGGLLSLWILLVSSTNQCTVRYNVADCSHLKLT HIPDDLPSNITVLNLTHNQLRRLPPT  
 NFTRYSQLAILDAGFNSISKLEPEL CQILPLLKVLNLQHNELSQISDQTFVFCNTL TELDLMSNSIHKIK  
 SNPFKNQKNLIKLDL SHNGLSSTKLTGTGVQLENLQELLAKNKILALRSEEF LGNSSLRKL DLSSNPL  
 KEFSPGCFQTIGKLFALLLNNAQLNPHL TEKLCWEL SNTSIQNL SLANNQLLATSESTF SGLKWTNL TQL  
 DLSYNNLHDVGN GSFYLP SLRYLSLEYNNIQRLSPRSFYGLSNLRYLSLKRAFTKQSVSLASHPNIDDF  
 SFQWLKYLEYLNMDNNIPSTKSNTFTGLVSLKYL SLSKTFTSLQTL TNETFVSLAHSPLLTNLTKNHI  
 SKIANGTFSWLGQLRILDGLNEIEQKLSGQEWRLRNIFEIYLSYNKYQLSTSSFALVPSLQRLMLRR  
 VALKNVDISPPFRPLRNL TILDLSNNNIANINEDLLEGLLENLEILDFQHNNLARLWKRANPGGPVNF LK  
 GLSHLHILNLESNGLDEIPVGVFKNL FELKSINLGLNNLNKLEPFI FDDQTSLSRSLNLQKNLITSVEKDV  
 FGPPFQNLNSLDMRFNPF DCTCESISWFVNWINQTH TNISELSTHYLCNTPHHYGFPLKLFDTSSCKDS  
 APFELLFIISTSM LLVF ILVVL IHI EGWRISFYWNVSVHRILGFKEIDTQAEQFYTAYIIHAHKDRDW  
 VWEHFSMEEQDQSLKFCLEERDFEAGVLGLEAIVNSIKRSRKIIFVITHHLLKDP LCRRFKVHHA VQQA  
 IEQNLD SIILIFLQNI PDYKLNHALCLRRGMFKSHCILNWPVQKERINAFH HKLQVALGSRNSAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9012\\_e07.zip](https://cdn.origene.com/chromatograms/mm9012_e07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

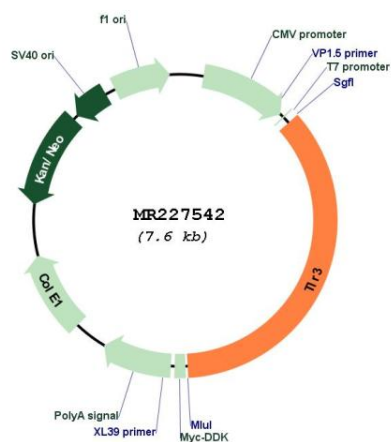


\* The last codon before the Stop codon of the ORF

ACCN: NM\_126166

<b>ORF Size:</b>	2715 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_126166.5</a>
<b>RefSeq Size:</b>	4327 bp
<b>RefSeq ORF:</b>	2718 bp
<b>Locus ID:</b>	142980
<b>UniProt ID:</b>	<a href="#">Q99MB1</a>
<b>Cytogenetics:</b>	8 B1.1
<b>MW:</b>	104.1 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for MR227542