

## Product datasheet for MC229317

### Tlr7 (NM\_001290758) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tlr7 (NM\_001290758) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tlr7  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC229317 representing NM\_001290758  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCTCAGTGGGTGTTTTCGATGTGGACACGGAAGAGACAAATTTTGATCTTTTTAAATATGCTCTTAG  
 TTTCTAGAGTCTTTGGGTTTCGATGGTTTCCTAAACTCTACCTGTGAAGTTAAAGTAAATATCCCAGA  
 GGCCCATGTGATCGTGGACTGCACAGACAAGCATTGACAGAAATCCCTGAGGGCATTCCCCTAACACC  
 ACCAATCTTACCCTTACCATCAACCACATACCAAGCATCTCTCCAGATTCTTCGGTAGGCTGAACCATC  
 TGAAGAAATCGATTTAAGATGCAATTGTGTACCTGTTCTACTGGGTCCAAAGCCAATGTGTGTACCAA  
 GAGGCTGCAGATTAGACCTGGAAGCTTTAGTGGACTCTCTGACTTAAAAGCCCTTTACCTGGATGGAAC  
 CAACTTCTGGAGATACCACAGGATCTGCCATCCAGCTTACATCTTCTGAGCCTTGAGGCTAACACATCT  
 TCTCCATCAGGAAGGAGAATCTAACAGAACTGGTCAACATTGAAACACTCTACCTGGGTCAAACCTGTTA  
 TTATCGAAATCCTTGCAATGTTTCCTATTCTATTGAAAAAGATGCTTTCTAGTTATGAGAAATTTGAAG  
 GTTCTCTCACTAAAAGATAACAATGTACAGCTGTCCCACCCTTTGCCACCTAATTTACTAGAGCTCT  
 ATCTTTATAACAATATCATTAAAGAAAATCCAAGAAAATGATTTTAAACCTCAATGAGTTGCAAGTTCT  
 TGACCTAAGTGGAAATTGCCCTCGATGTTATAATGTCCCATATCCGTGTACACCGTGTGAAAATAATTCC  
 CCCTTACAGATCCATGACAATGCTTTCAATTCATTGACAGAATTAAGTTTACGTTTACACAGTAATT  
 CTCTTCAGCATGTGCCCAACATGGTTTAAAAACATGAGAAACCTCCAGGAACTAGACCTCTCCAAAA  
 CTACTTGGCCAGAGAAATGAGGAGGCCAAATTTTGCATTTTCTTCCCAACCTTGTTGAGTTGGATTTT  
 TCTTTCAATTATGAGCTGCAGGTCTACCATGCATCTATAACTTTACCACATTCACCTCTTTCATTGGAAA  
 ACTTGAATTTCTGCGTGTCAAGGGTATGTCTTTAAAGAGCTGAAAACTCCAGTCTTTCTGTATTGCA  
 CAAGCTTCCAGGCTGGAAGTTCTTACCTTGGCACTAACTTCATAAAAAATTGCTGACCTCAACATATTC  
 AAACATTTTGAACCTCAAACATAGACCTTTCAGTGAATAAGATATCTCCTCAGAAGAGTCAAGAG  
 AAGTTGGCTTTTGTCTAATGCTCAAACCTTCTGTAGACCGTCATGGGCCCCAGGTCTTGAGGCCTTACA  
 CTATTTCCGATACGATGAATATGCACGGAGCTGCAGGTTCAAAAACAAAGAGCCACCTTCTTTCTGCTT  
 TTGAATGCAGACTGCCACATATATGGGCAGACCTTAGACTTAAGTAGAAATAACATATTTTTTATTAAC  
 CTTCTGATTTTTCAGCATCTTTCATTCTCAAAATGCCTCAACTTATCAGGAAACACCATTGGCCAACTCT  
 TAATGGCAGTGAACCTGGCCGTTGAGAGAGTTGCGGTACTTAGACTTCTCCAACAACCGGCTTGATTTA



CTCTACTCAACAGCCTTTGAAGAGCTCCAGAGTCTTGAAGTTCTGGATCTAAGTAGTAACAGCCACTATT  
 TTCAAGCAGAAGGAATTACTCACATGCTAACTTTACCAAGAAATTACGGCTTCTGGACAAACTCATGAT  
 GAATGATAATGACATCTCTACTTCGGCCAGCAGGACCATGGAAAGTGACTCTCTCGAATTCTGGAGTTC  
 AGAGGCAACCATTTAGATGTTCTATGGAGAGCCGGTGATAACAGATACTTGGACTCTTCAAGAATTTGT  
 TCAATTTAGAGGTATTAGATATCTCCAGAAATCCCTGAATTCCTGCCTCCTGAGGTTTTGAGGGTAT  
 GCCGCCAAATCTAAAGAATCTCCTTGGCCAAAAATGGGCTCAAATCTTCTTTTGGACAGACTCCAG  
 TTAAGCAAGCATTGGAAATTTTGGACCTCAGCCATAACCAGCTGACAAAAGTACCTGAGAGATTGGCCA  
 ACTGTTCCAAAAGTCTCACAACTGATTCTTAAGCATAATCAAATCAGGCAATTGACAAAATATTTTCT  
 AGAAGATGCTTTGCAATTGCGCTATCTAGACATCAGTTCAAATAAAATCCAGGTCATTCAGAAGACTAGC  
 TTCCAGAAAATGCTCTCAACAATCTGGAGATGTTGGTTTTACATCACAATCGCTTTCTTTGCAACTGTG  
 ATGCTGTGTGTTGTCTGGTGGTTAACCATACAGATGTTACTATTCCATACCTGGCCACTGATGTGAC  
 TTGTGTAGGTCCAGGAGCACACAAGGTCAAAGTGCATATCCCTTGATCTGTATACGTGTGAGTTAGAT  
 CTCACAACTGATTCTGTTCTCAGTTCCATATCATCAGTCTCTTTCTTATGGTAGTTATGACAACAA  
 GTCACCTCTTTTCTGGGATATGTGGTACATTTATTATTTTGGAAAGCAAAGATAAAGGGGTATCAGCA  
 TCTGCAATCCATGGAGTCTTGTATGATGCTTTTATTGTGTATGACACTAAAACTCAGCTGTGACAGAA  
 TGGGTTTTGCAGGAGCTGGTGGCAAAATTTGGAAGATCCAAGAGAAAAACACTTCAATTTGTGTCTAGAAG  
 AAAGAGACTGGCTACCAGGACAGCCAGTTCTAGAAAACCTTTCCAGAGCATACAGCTCAGCAAAAAGAC  
 AGTGTTTGTGATGACACAGAAATATGCTAAGACTGAGAGTTTTAAGATGGCATTATTTGTCTCATCAG  
 AGGCTCCTGGATGAAAAGTGGATGTGATTATCTTGATATTCTTGGAAAAGCCTCTTCAGAAGTCTAAGT  
 TTCTTCAGCTCAGGAAGAGACTGTCAGGAGCTGTCTTGGAGTGGCCTGCAATCCACAGGCTCACCC  
 ATACTTCTGGCAGTGCCTGAAAATGCCCTGACCACAGACAATCATGTGGCTTATAGTCAAATGTTCAAG  
 GAAACAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001290758
- Insert Size:** 3162 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001290758.1](#), [NP\\_001277687.1](#)

RefSeq Size: 3875 bp

RefSeq ORF: 3162 bp

Locus ID: 170743

Cytogenetics: X F5

**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. TLR7 is a nucleotide-sensing TLR which is activated by single-stranded RNA. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (5) lacks an alternate exon in the 5' region and initiates translation at an alternate upstream start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is longer than isoform a.