

Product datasheet for **MC229313**

Tlr7 (NM_001290756) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tlr7 (NM_001290756) 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: >MC229313 representing NM_001290756
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTTCGATGTGGACACGGAAGAGACAAATTTTGATCTTTTAAATATGCTCTTAGTTTCTAGAG
TCTTTGGGTTTCGATGGTTTCCTAAAACCTACCTTGTGAAGTTAAAGTAAATATCCAGAGGCCCATGT
GATCGTGGACTGCACAGACAAGCATTGACAGAAATCCCTGAGGGCATTCCCACTAACACCACCAATCTT
ACCCTTACCATCAACCACATACCAAGCATCTCTCCAGATTCCCTCCGTAGGCTGAACCATCTGGAAGAAA
TCGATTTAAGATGCAATTGTGTACTCTACTGGGGTCCAAAGCCAATGTGTGTACCAAGAGGCTGCA
GATTAGACCTGGAAGCTTTAGTGGACTCTCTGACTTAAAAGCCCTTACCTGGATGGAAACCAACTCTG
GAGATACCACAGGATCTGCCATCCAGCTTACATCTTCTGAGCCTTGAGGCTAACACATCTTCTCCATCA
CGAAGGAGAATCTAACAGAACTGGTCAACATTGAAACACTCTACCTGGGTCAAACCTGTTATTATCGAAA
TCCTTGAATGTTTCTATTCTATTGAAAAGATGCTTTCCTAGTTATGAGAAATTTGAAGGTTCTCTCA
CTAAAAGATAACAATGTCACAGCTGTCCCACCCTTTGCCACCTAATTTACTAGAGCTCTATCTTTATA
ACAATATCATTAAAGAAAATCCAAGAAAATGATTTTAATAACCTCAATGAGTTGCAAGTTCTTGACCTAAG
TGGAAATTGCCCTCGATGTTATAATGTCCCATATCCGTGTACACCGTGTGAAAATAATCCCCCTTACAG
ATCCATGACAATGCTTCAATTCATTGACAGAATTAAGTGTTCACGTTTACACAGTAATTCCTTTCAGC
ATGTGCCCCCAACATGGTTTAAAAACATGAGAAACCTCCAGAACTAGACCTCTCCAAAACCTACTTGGC
CAGAGAAATTGAGGAGGCCAAAATTTTGCATTTCTTCCCAACCTTGTGAGTTGGATTTTTCTTCAAT
TATGAGCTGCAGGTCTACCATGCATCTATAACTTTACCACATTCCTCTTTCATTGAAAACTTAAAA
TTCTGCGTGTCAAGGGTATGTCTTAAAGAGCTGAAAACTCCAGTCTTCTGTATTGCACAAGCTTCC
CAGGCTGGAAGTCTTGACCTTGGCACTAACTTCATAAAAAATGCTGACCTCAACATATTCAAACATTTT
GAAAACCTCAAACCTATAGACCTTTCAGTGAATAAGATATCTCCTCAGAAAGTCAAGAGAAGTTGGCT
TTTGTCTAATGCTCAAACCTCTGTAGACCGTCATGGGCCAGGTCCTTGAGGCCTTACACTATTTCCG
ATACGTAATATGCACGGAGCTGCAGGTTCAAAAACAAAGAGCCACCTTCTTCTTGCCTTTGAATGCA
GACTGCCACATATATGGGCAGACCTTAGACTTAAGTAGAAATAACATATTTTTTATTAACCTTCTGATT
TTCAGCATCTTTCATTCTCAAATGCCTCAACTTATCAGGAAACACCATTGGCCAAACCTTAAATGGCAG
TGAACCTGGCCGTTGAGAGAGTTGCGTACTTAGACTTCTCCAACAACCGGCTTGATTTACTCTACTCA



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ACAGCCTTTGAAGAGCTCCAGAGTCTTGAAGTTCTGGATCTAAGTAGTAACAGCCACTATTTTCAAGCAG
AAGGAATTACTCACATGCTAACTTTACCAAGAAATTACGGCTTCTGGACAAACTCATGATGAATGATAA
TGACATCTCTACTTCGGCCAGCAGGACCATGAAAGTGACTCTCTTGAATTCTGGAGTTCAGAGGCAAC
CATTTAGATGTTCTATGGAGAGCCGGTGATAACAGATACTTGGACTTCTTCAAGAATTTGTTCAATTTAG
AGGTATTAGATATCTCCAGAAATTCCTGAATTCCTTGCCTCCTGAGGTTTTGAGGGTATGCCGCCAAA
TCTAAAGAATCTCTCCTTGGCCAAAAATGGGCTCAAATCTTCTTTGGGACAGACTCCAGTTACTGAAG
CATTTGGAAATTTGGACCTCAGCCATAACCAGCTGACAAAAGTACCTGAGAGATTGGCCAAGTGTCCA
AAAGTCTCACAACACTGATTCTTAAGCATAATCAAATCAGGCAATTGACAAAATATTTTCTAGAAGATGC
TTTGCAATTGCGCTATCTAGACATCAGTTCAAATAAAATCCAGGTCATTCAGAAGACTAGCTTCCCAGAA
AATGTCCTCAACAATCTGGAGATGTTGGTTTTACATCACAATCGCTTTCTTTGCAACTGTGATGCTGTG
GGTTTGTCTGGTGGTTAACCATACAGATGTTACTATTCCATACCTGGCCACTGATGTGACTTGTGTAGG
TCCAGGAGCACACAAAGGTCAAAGTGTCATATCCCTTGATCTGTATACGTGTGAGTTAGATCTCACAAAC
CTGATTCTGTTCTCAGTTTCCATATCATCAGTCTCTTCTTATGGTAGTTATGACAACAAGTCACTCT
TTTTCTGGGATATGTGGTACATTTATTATTTTGGAAAGCAAAGATAAAGGGGTATCAGCATCTGCAATC
CATGGAGTCTTGTATGATGCTTTTATTGTGTATGACACTAAAACTCAGCTGTGACAGAATGGGTTTTG
CAGGAGCTGGTGGCAAAATTGGAAGATCCAAGAGAAAAACAATCAATTTGTGTCTAGAAGAAAGAGACT
GGCTACCAGGACAGCCAGTTCTAGAAAACCTTTCCAGAGCATACAGCTCAGCAAAAAGACAGTGTTTGT
GATGACACAGAAATATGCTAAGACTGAGAGTTTTAAGATGGCATTTTATTTGTCTCATCAGAGGCTCCTG
GATGAAAAAGTGGATGTGATTATCTTGATATTCTTGGAAAAGCCTCTTCAGAAGTCTAAGTTTCTCAGC
TCAGGAAGAGACTCTGCAGGAGCTCTGTCTTGGTGGCTGCAATCCACAGGCTCACCCATACTTCTG
GCAGTGCCTGAAAAATGCCCTGACCACAGACAATCATGTGGCTTATAGTCAAATGTTCAAGGAAACAGTC
TAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001290756
Insert Size:	3153 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:	<ol style="list-style-type: none">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:	<u>NM_001290756.1</u> , <u>NP_001277685.1</u>

RefSeq Size: 3862 bp

RefSeq ORF: 3153 bp

Locus ID: 170743

UniProt ID: [P58681](#)

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 (2) lacks an alternate exon in the 5' region, compared to variant 1. Variants 1, 2, 3, and 4 encode the same isoform (a).