

## Product datasheet for MR231523

### Tlr7 (NM\_001290755) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tlr7 (NM\_001290755) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tlr7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR231523 representing NM\_001290755  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGTGTTTTCGATGTGGACACGGAAGAGACAAATTTTGATCTTTTTAAATATGCTCTTAGTTTCTAGAG  
TCTTTGGGTTTCGATGGTTTCCTAAAACCTACCTTGTGAAGTTAAAGTAAATATCCCAGAGGCCCATGT  
GATCGTGGACTGCACAGACAAGCATTGACAGAAATCCCTGAGGGCATTCCCCTAACACCACCAATCTT  
ACCTTACCATCAACCACATACCAAGCATCTCTCCAGATTCCTTCCGTAGGCTGAACCATCTGGAAGAAA  
TCGATTTAAGATGCAATTGTGTACCTGTCTACTGGGGTCCAAAGCCAATGTGTGTACCAAGGGTCA  
GATTAGACCTGGAAGCTTTAGTGGACTCTCTGACTTAAAAGCCCTTTACCTGGATGGAAACCAACTTCTG  
GAGATACCACAGGATCTGCCATCCAGCTTACATCTTCTGAGCCTTGGGCTAACACATCTTCTCCATCA  
CGAAGGAGAATCTAACAGAACTGGTCAACATTGAAACACTCTACCTGGGTCAAACCTGTTATTATCGAAA  
TCCTTGAATGTTTCTATTCTATTGAAAAAGATGCTTTCCTAGTTATGAGAAATTTGAAGGTTCTCTCA  
CTAAAAGATAACAATGTCACAGCTGTCCCACCCTTTGCCACCTAATTTACTAGAGCTCTATCTTTATA  
ACAATATCATTAAAGAAATCCAAGAAATGATTTTAAACCTCAATGAGTTGCAAGTTCTTGACCTAAG  
TGGAAATGGCCCTCGATGTTATAATGTCCCATATCCGTGTACACCGTGTGAAAATAATCCCCCTTACAG  
ATCCATGACAATGCTTTCAATTCATTGACAGAATTAAGTTTTACGTTTACACAGTAATCTCTTCAGC  
ATGTGCCCCCAACATGGTTTAAAACATGAGAAACCTCCAGAACTAGACCTCTCCAAAACCTACTTGGC  
CAGAGAAATTGAGGAGGCCAAATTTTTGCAATTTCTTCCCAACCTTGTGAGTTGGATTTTTCTTTCAAT  
TATGAGCTGCAGGTCTACCATGCATCTATAACTTTACCACATTCCTCTTCTTATTGAAAACTGAAAA  
TTCTGCGTGTCAAGGGTATGTCTTTAAAGAGCTGAAAACTCCAGTCTTTCTGTATTGCACAAGCTTCC  
CAGGCTGGAAGTCTTGACCTTGGCACTAATTCATAAAAATTGCTGACCTCAACATATTCAAACATTTT  
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ATACGTAATATGCACGGAGCTGCAGGTTCAAAAACAAAGAGCCACCTCTTTCTTGCCTTTGAATGCA  
GACTGCCACATATATGGGCAGACCTTAGACTTAAGTAGAAATAACATATTTTTTAAACCTTCTGATT  
TTCAGCATCTTTCATTCTCAAATGCCTCAACTTATCAGGAAACACCATTGGCCAACTCTTAATGGCAG



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TGAACTCTGGCCGTTGAGAGAGTTGCGGTACTTAGACTTCTCCAACAACCGGCTTGATTTACTCTACTCA  
 ACAGCCTTTGAAGAGCTCCAGAGTCTTGAAGTTCTGGATCTAAGTAGTAACAGCCACTATTTTCAAGCAG  
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 GATGACACAGAAATAGCTAAGACTGAGAGTTTTAAGATGGCATTATTTTGTCTCATCAGAGGCTCCTG  
 GATGAAAAGTGGATGTGATTATCTTGATATTCTTGGAAAAGCCTCTTCAGAAGTCTAAGTTTCTCAGC  
 TCAGGAAGAGACTCTGCAGGAGCTCTGTCTTGTGAGTGGCTGCAAATCCACAGGCTCACCCATACTTCTG  
 CGAGTGCCTGAAAATGCCCTGACCACAGACAATCATGTGGCTTATAGTCAAATGTTCAAGGAAACAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAGGTTTAA

**Protein Sequence:**

>MR231523 representing NM\_001290755  
 Red=Cloning site Green=Tags(s)

MVFSMWRKRQILIFLNMLLVSRVFGFRWFPKTLPCEVKVNIPEAHVIVDCTDKHLTEIPEGIPTNTNL  
 TLTINHIPSISPDSFRRLNHLEEIDLRNCVPLVLLGSKANVCTKRLQIRPGSFSGLSDLKALYLDGNQLL  
 EIPQDLPSSLHLLSLEANNIFSIKENLTELVNIETLYLQNCYRNPVNSYSIEKDAFLVMRNLKVL  
 LKDNVAVPTTLPNLELLEYLNNIIKKIQENDFNLLNELQVLDLSGNCPRCYNVPYPCPCENNSPLQ  
 IHDNAFNSLTELKVLRLHSNSLQHVPTWFKNMRNLQELDLSONYLAREIEEAKFLHFLPNLVELDFSN  
 YELQVYHASITLPHSLSSLENLILRVKGYVFKELKNSSLVHLKLPRLVLDLGTNFIKIADLNIFKHF  
 ENLKLIDL SVNKISPSEESREVGFCPNAQTSVDRHGPQVLEALHYFRYDEYARSCRFKNKEPPSFLPLNA  
 DCHIYGQTLDL SRNNIFFIKPSDFQHL SFLKCLNL SGNITGQTLNGSELWPLRELRYLDFSNRLDLLYS  
 TAFEELQSLEVLDSLSSHYPQAEGITHMLNFTKKLRLLDKLMNDNDISTASRTMESDSLRIEFRGN  
 HLDVLRAGDNRYLDFFKNL FNLEVLDIRNSLNSLPPEVFEGMPPNLKNLSLAKNGLKSFWDRLQLLK  
 HLEILDLSHNQLTKVPERLANCSKSLTTLILKHNQIRQLTKYFLEDALQLRYLDISSNKIQVIQKTSFPE  
 NVLNNLEMLVLHHRFLCNCDAVWFVWVWVHTDVTIPYLATDVTGVPGAHKGQSVISLDLYTCELDTN  
 LILFVSVISLFLMVMTTSHLFFWDMWYIYFWKAKIKGYQHLQSMESCYDAFIVYDTKNSAVTEWWL  
 QELVAKLEDPREKHFNLCLEERDWPQGPVLENL SQSIQLSKKTVFVMTQKYAKTESFKMAFYLSHQRL  
 DEKVDVILIFLEKPLQKSKFLQLRKL CRSSVLEWPNPQAHYPFWQCLKNALTTDNHVAYSQMFKETV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9012\\_a03.zip](https://cdn.origene.com/chromatograms/mm9012_a03.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001290755

ORF Size: 3150 bp

OTI Disclaimer: 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\\_001290755.1](#), [NP\\_001277684.1](#)

RefSeq Size: 3943 bp

RefSeq ORF: 3153 bp

Locus ID: 170743

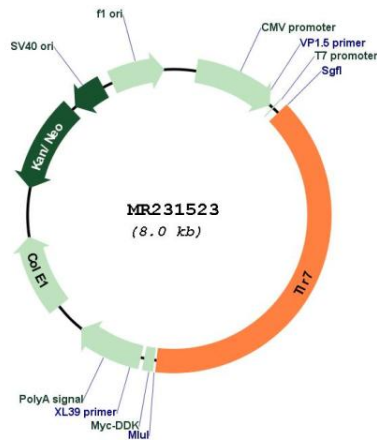
UniProt ID: [P58681](#)

Cytogenetics: X F5

MW: 121.8 kDa

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]

**Product images:**



Circular map for MR231523