

Product datasheet for MR231524

Tlr7 (NM_001290756) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr7 (NM_001290756) 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:	>MR231524 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGTGTTTTCGATGTGGACACGGAAGAGACAAATTTTGATCTTTTTAAATATGCTCTTAGTTTCTAGAGTCTTTGGGTTTCGATGGTTTCCTAAAACCTACCTTGGAAGTTAAAGTAAATATCCAGAGGCCCATGTGATCGTGGACTGCACAGACAAGCATTGACAGAAATCCCTGAGGGCATTCCCACTAACACCACCAATCTTACCCCTTACCATCAACCACATACCAAGCATCTCTCCAGATTCCTTCCGTAGGCTGAACCATCTGGAAGAAATCGATTAAAGATGCAATTGTGTACCTGTCTACTGGGGTCCAAAGCCAATGTGTGTACCAAGAGGCTGCA GATTAGACCTGGAAGCTTTAGTGGACTCTCTGACTTAAAAGCCCTTTACCTGGATGGAAACCAACTTCTG GAGATACCACAGGATCTGCCATCCAGCTTACATCTTCTGAGCCTTGAGGCTAACACATCTTCTCCATCA CGAAGGAGAATCTAACAGAACTGGTCAACATTGAAACACTCTACCTGGGTCAAACCTGTTATTATCGAAA TCCTTGCAATGTTTCCTATTCTATTGAAAAAGATGCTTTCCTAGTTATGAGAAATTTGAAGGTTCTCTCA CTAAGATAACAATGTCACAGCTGTCCCACCCTTTGCCACCTAATTTACTAGAGCTCTATCTTTATA ACAATATCATTAAAGAAATCCAAGAAATGATTTTAAACCTCAATGAGTTGCAAGTTCTTGACCTAAG TGGAAATTGCCCTCGATGTTATAATGTCCCATATCCGTGTACACCGTGTGAAAATAATCCCCCTTACAG ATCCATGACAATGCTTTCAATTCATTGACAGAATTAAGTTTTACGTTTACACAGTAATCTCTTCAGC ATGTGCCCCCAACATGGTTTAAAACATGAGAAACCTCCAGAACTAGACCTCTCCAAAACCTACTTGGC CAGAGAAATTGAGGAGGCCAAATTTTTGCAATTTCTTCCCAACCTTGTTGAGTTGGATTTTTCTTTCAAT TATGAGCTGCAGGTCTACCATGCATCTATAACTTTACCACATTCCTCTTCTTATTGAAAACTGAAAA TTCTGCGTGTCAAGGGTATGTCTTTAAAGAGCTGAAAACTCCAGTCTTTCTGTATTGCACAAGCTTCC CAGGCTGGAAGTTCTTGACCTTGGCACTAACTTCATAAAAATTGCTGACCTCAACATATTCAAACATTTT GAAAACCTCAAACCTCATAGACCTTTCAGTGAATAAGATATCTCCTCAGAAGAGTCAAGAGAAGTTGGCT TTTGTCTAATGCTCAAACCTTCTGTAGACCGTCTATGGGCCAGGTCCTTGAGGCCTTACACTATTTCCG ATACGATGAATATGCACGGAGCTGCAGGTTCAAAAACAAAGAGCCACCTCTTTCTTGCCCTTTGAATGCA GACTGCCACATATATGGGCAGACCTTAGACTTAAGTAGAATAACATATTTTTTATTAAACCTTCTGATT TTCAGCATCTTTCATTCTCAAATGCCTCAACTTATCAGGAAACACCATTGGCCAACTCTTAATGGCAG



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TGAACTCTGGCCGTTGAGAGAGTTGCGGTACTTAGACTTCTCCAACAACCGGCTTGATTTACTCTACTCA
 ACAGCCTTTGAAGAGCTCCAGAGTCTTGAAGTTCTGGATCTAAGTAGTAACAGCCACTATTTTCAAGCAG
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 CGAGTGCCTGAAAATGCCCTGACCACAGACAATCATGTGGCTTATAGTCAAATGTTCAAGGAAACAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>MR231524 protein sequence
 Red=Cloning site Green=Tags(s)

MVFSMWRKRQILIFLNMLLVSRVFGFRWFPKTLPCEVKVNIPEAHVIVDCTDKHLTEIPEGIPTNTNL
 TLTINHIPSISPDSFRRLNHLEEIDLRNCVPLVLLGSKANVCTKRLQIRPGSFSGLSDLKALYLDGNQLL
 EIPQDLPSSLHLLSLEANNIFSIKENLTEL VNIETLYLGQNCYRNPVNSYSIEKDAFLVMRNLKVL S
 LKDNNVTA VPTTLPNNLELYLYNNIIKKIQENDFNLLNELQVLDL SGNCPRCYNVPYPTPCENNSPLQ
 IHDNAFNSLTELKVLRLHSNSLQHVPTWFKNMRNLQELDL SQNYLAREIEEAKFLHFLPNLVELDFSN
 YELQVYHASITLPHSLSSLENLILRVKGYVFKELKNSSL SVLHKLPRLEVLDLGTNFIKIADLNIFKHF
 ENLKLIDL SVNKISPSEESREVGFCPNAQTSVDRHGPQVLEALHYFRYDEYARSCRFKNKEPPSFLPLNA
 DCHIYGQTLDL SRNNIFFIKPSDFQHL SFLKCLNL SGNTIGQTLNGSELWPLRELRYLDFSNRLDLLYS
 TAFEELQSLEVL DLSSNSHYFQAEGITHMLNFTKKLRLLDKLMMNDNDISTASRTMESDSLRIEFRGN
 HLDVLRAGDNRYLDFFKNL FNLEVLDIRNSLNSLPPEVFEGMPPNLKNLSLAKNGLKSFWDRLQLLK
 HLEILDLSHNQLTKVPERLANCSKSLTTLILKHNQIRQLTKYFLEDALQLRYLDISSNKIQVIQKTSFPE
 NVLNNLEMLV LHNRFLCNDAVWFVWVWVHTDVTIPYLATDVT CVGPGAHKQGSVISLDLYTCELDL TN
 LILFSVSISSVLFMVMVMTTSHLFFWDMWYIYFWKAKIKGYQHLQSMESCYDAFIVYDTKNSAVTEWWL
 QELVAKLEDPREKHFNLCLEERDWLPGQPVENLSQSIQLSKKTVFVMTQKYAKTESFKMAFYLSHQRL
 DEKVDVILIFLEKPLQKSKFLQLRKRLCRSSVLEWPNPQAHYPFWQCLKNALTTDNHVAYSQMFKETV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001290756

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_001290756.1](#), [NP_001277685.1](#)

RefSeq Size: 3862 bp

RefSeq ORF: 3153 bp

Locus ID: 170743

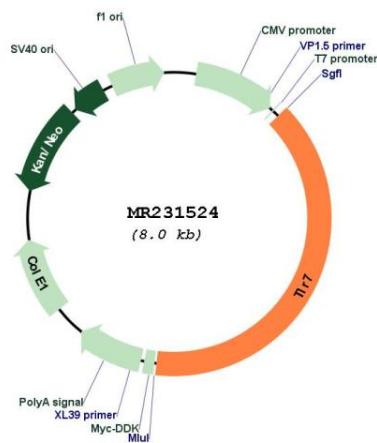
UniProt ID: [P58681](#)

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 MR231524