

Product datasheet for **MG226835**

Tlr7 (NM_133211) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr7 (NM_133211) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tlr7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226835 representing NM_133211 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTTTTCGATGTGGACACGGAAGAGACAAATTTTGATCTTTTTAAATATGCTCTTAGTTTCTAGAG
TCTTTGGGTTTCGATGGTTTCCTAAAACCTACCTTGTGAAGTTAAAGTAAATATCCCAGAGGCCCATGT
GATCGTGGACTGCACAGACAAGCATTGACAGAAATCCCTGAGGGCATTCCCCTAACACCACCAATCTT
ACCTTACCATCAACCACATACCAAGCATCTCTCCAGATTCCCTCCGTAGGCTGAACCATCTGGAAGAAA
TCGATTTAAGATGCAATTGTGTACCTGTCTACTGGGGTCCAAAGCCAATGTGTGTACCAAGAGGCTGCA
GATTAGACCTGGAAGCTTTAGTGGACTCTCTGACTTAAAAGCCCTTTACCTGGATGGAAACCAACTTCTG
GAGATACCACAGGATCTGCCATCCAGCTTACATCTTCTGAGCCTTGGGCTAACACATCTTCTCCATCA
CGAAGGAGAATCTAACAGAACTGGTCAACATTGAAACACTCTACCTGGGTCAAACCTGTTATTATCGAAA
TCCTTGAATGTTTCTATTCTATTGAAAAAGATGCTTTCCTAGTTATGAGAAATTTGAAGTTCTCTCA
CTAAAAGATAACAATGTCACAGCTGTCCCACCCTTTGCCACCTAATTTACTAGAGCTCTATCTTTATA
ACAATATCATTAAAGAAAATCCAAGAAAATGATTTTAAACCTCAATGAGTTGCAAGTTCTTGACCTAAG
TGGAAATTGCCCTCGATGTTATAATGTCCCATATCCGTGTACACCGTGTGAAAATAATCCCCCTTACAG
ATCCATGACAATGCTTTCAATTCATTGACAGAATTAAGTTTTACGTTTACACAGTAATCTCTTCAGC
ATGTGCCCCCAACATGGTTTAAAACATGAGAAACCTCCAGAACTAGACCTCTCCAAAACCTACTTGGC
CAGAGAAATTGAGGAGGCCAAATTTTTGCAATTTCTTCCCAACCTTGTGAGTTGGATTTTTCTTCAAT
TATGAGCTGCAGGTCTACCATGCATCTATAACTTTACCACATTCCTCTTCTTATTGAAAACTTAAAA
TTCTGCGTGTCAAGGGTATGTCTTTAAAGAGCTGAAAACTCCAGTCTTCTGTATTGCACAAGCTTCC
CAGGCTGGAAGTTCTTGACCTTGGCACTAACTTCATAAAAATGTGTGACCTCAACATATTCAAACATTTT
GAAAACCTCAAACCTCATAGACCTTTCAGTGAATAAGATATCTCCTCAGAAGAGTCAAGAGAAGTTGGCT
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GACTGCCACATATATGGGCAGACCTTAGACTTAAGTAGAATAACATATTTTTTAAACCTTCTGATT
TTCAGCATCTTTCATTCTCAAATGCCTCAACTTATCAGGAAACACCATTGGCCAACTCTTAATGGCAG



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TGAACTCTGGCCGTTGAGAGAGTTGCGGTACTTAGACTTCTCCAACAACCGGCTTGATTTACTCTACTCA
 ACAGCCTTTGAAGAGCTCCAGAGTCTTGAAGTTCTGGATCTAAGTAGTAACAGCCACTATTTTCAAGCAG
 AAGGAATTACTCACATGCTAAACTTTACCAAGAAATTACGGCTTCTGGACAAACTCATGATGAATGATAA
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 CAGGAGCTGGTGGCAAAATTGGAAGATCCAAGAGAAAAACACTTCAATTTGTGTCTAGAAGAAAAGACT
 GGCTACCAGGACAGCCAGTTCTAGAAAACCTTTCCAGAGCATACAGCTCAGCAAAAAGACAGTGTTTGT
 GATGACACAGAAATAGCTAAGACTGAGAGTTTAAAGTGGCATTTTATTTGTCTCATCAGAGGCTCCTG
 GATGAAAAGTGGATGTGATTATCTTGATATTCTTGGAAAAGCCTTTCAGAAGTCTAAGTTTCTCAGC
 TCAGGAAGAGACTCTGCAGGAGCTCTGTCTTGTGAGTGGCTGCAATCCACAGGCTCACCCATACTTCTG
 CGAGTGCCTGAAAATGCCCTGACCACAGACAATCATGTGGCTTATAGTCAAATGTTCAAGGAAACAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226835 representing NM_133211
 Red=Cloning site Green=Tags(s)

MVFSMWRKRQILIFLNMLLVSRVFGFRWFPKTLPCVKNVPIEAHVIVDCTDKHLTEIPEGIPTNTNL
 TLTIINHIPSISPDSFRRLNHLEEDLRCNCVPLLGSKANVCTKRLQIRPGSFSGLSDLKALYLDGNQLL
 EIPQDLPSSLHLLSLEANNIFSIKENLTELVNIETLYLGQNCYRNPNCNVSYSIEKDAFLVMRNLKVL
 LKDNVNTAVPTTLPNLELLELYLNNI IKKI QENDFNLLNELQVLDL SGNCPRCYNVPYPCPCENNSPLQ
 IHDNAFNLSLTELKVLRLHSNSLQHPPTWFKNMRNLQELDL SQNYLAREIEEAKFLHFLPNLVELDFSN
 YELQVYHASITLPHSLSSLENLILRVKGYVFKELKNSSL SVLHKLPRLEVLDLGTNFIKIADLNIFKHF
 ENLKLIDL SVNKISPSEESREVGFCPNAQTSVDRHGPQVLEALHYFRYDEYARSCRFKNKEPPSFLPLNA
 DCHIYGQTLDL SRNNIFFIKPSDFQHL SFLKCLNL SGNTIGQTLNGSELWPLRELRYLDFSNRLDLLYS
 TAFEELQSLEVLDSLSSHYPQAEGITHTMLNFTKKLRLLDKLMNDNDISTASRTMESDSLRIEFRGN
 HLDVLRAGDNRYLDFFKNLFNLEVLDISRNSLNSLPPEVFEGMPPNLKNLSLAKNGLKSFWDRLQLLK
 HLEILDLSHNQLTKVPERLANCSKSLTTLILKHNQIRQLTKYFLEDALQLRYLDISSNKIQVIQKTSFPE
 NVLNNLEMLVLHHRFLCNCDAVWFVWVNHTDVTIPYLATDVT CVGPGAHKQSVISLDLYTCELDL TN
 LILFSVSISSVFLMVVMTTSHLFFWDMWYIYYFWKAKIKGYQHLQSMESCYDAFIVYDTKNSAVTEWWL
 QELVAKLEDPREKHFNLCEERDWPVLPVLENL SQSIQL SKKT VVMTQKYAKTESFKMAFYLSHQRL
 DEKVDVILIFLEKPLQKSKFLQLRKRCLRSSVLEWPNPQAHYPFWQCLKNALTTDNHVAYSQMFKETV

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2015_a05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_133211

ORF Size: 3150 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_133211.4](#), [NP_573474.1](#)

RefSeq Size: 3746 bp

RefSeq ORF: 3153 bp

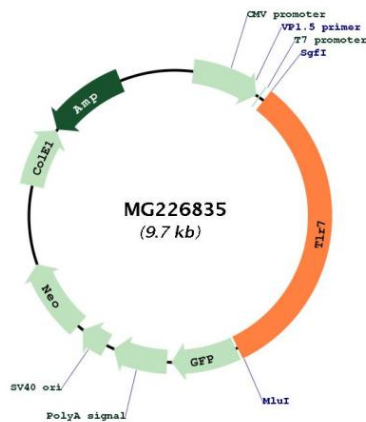
Locus ID: 170743

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]

Product images:



Circular map for MG226835