

Product datasheet for MR224856

Tlr8 (NM_133212) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr8 (NM_133212) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlr8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224856 representing NM_133212 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGAAAACATGCCCCCTCAGTCATGGATTCTGACGTGCTTTTGTCTGCTGTCCTCTGGAACCACTGCCA
TCTTCCATAAAGCGAACTATTCCAGAAGCTATCCTTGTGACGAGATAAGGCACAACCTCCCTTGTGATTGC
AGAATGAACCATCGTCAACTGCATGAAGTTCCCAAACTATAGGCAAGTATGTGACAAAACATAGACTTG
TCAGACAATGCCATTACACATATAACGAAAGAGTCCTTTCAAAGCTGCAAAACCTCACTAAAATCGATC
TGAACCACAATGCCAAAACAGCACCACAAATGAAAATAAAAATGGTATGAATATTACAGAAGGGCCT
TCTCAGCCTAAGAAATCTAACAGTTTTACTGCTGGAAGACAACCAAGTTATATACTATACTGCTGGGTTG
CCTGAGTCTTTGAAAGAACTTAGCCTAATTCAAACAATATATTTCAAGTAACTAAAAACAACCTTTTG
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AGAAGATGGGGCATTTAAAAATCTTATACACTGAAGTACTCTCATTATCTTTCAATAACCTTTTCTAT
GTGCCCCCAAACCTACCAAGTCTCTAAGGAACTTTTTCTGAGTAAATGCCAAAATCATGAACATCACTC
AGGAAGACTTCAAAGGACTGGAAAATTTAACATTACTAGATCTGAGTGGAACTGTCCAAGGTGTTACAA
TGCTCCATTTCTTGCACACCTTGAAGGAAAACCTCATCCATCCACATACATCCTCTGGCTTTCAAAGT
CTACCCAACTTCTCTATCTAAACCTTTCCAGCACTTCCCTCAGGACGATTCTTCTACCTGGTTTGAAA
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TTTAAACAAAACCTACCCAGTTTACAAATCCTTGATTTGTCCTTCAACTTTCAATATAAGGAATATTTACAA
TTTATTAATATTTCTCAAATTTCTCTAAGCTTCGTTCTCTCAAGAAGTTCCTTAAAGAGGCTATGTGT
TCCGAGAACTTAAAAAGAAGCATTTTCGAGCATCTCCAGAGTCTTCCAAACTTGGCAACCATCAACTTGGG
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CTCTCTCAACAGACGATGATGAGTTTGATCCACACGTGAATTTTACCATAGCACAAACCTTTAATAAAA
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CAATTTGAAGGTTTTAGGATATCGCCTGCTTAAATCTGTCTTCAATGCAATCAACTCAAGGTGTTAATG
GCACAGAATTCTCTCCATGCCCCACATTAATATTTGGATTTAACCAACAACAGACTAGACTTTGATGA



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TAACAATGCTTTTCAGTGATCTTCACGATCTAGAAGTGGCTGGACCTGAGCCACAATGCACACTATTTTCAGT
 ATAGCAGGGGTAACGCACCGTCTAGGATTTATCCAGAACTTAATAAACCTCAGGGTGTAAACCTGAGCC
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224856 representing NM_133212
 Red=Cloning site Green=Tags(s)

MENMPPQSWILTCFCLSSGTSIIFHKANYSRSPYPCDEIRHNSLVIAECNHRQLHEVPQTIGKYVTNIDL
 SDNAITHITKESFQKLQNLTKIDLNHNKQHPNENKNGMNIPEGALLSLRNLTVLLLEDNQLYTIIPAGL
 PESLKEKLSLIQNNIFQVTKNNTFGLRNLERLYLGNWCYFKCNQTFKVEDGAFKNL IHLKVLSLSFNNLFY
 VPPKLPSSLRKFLSNAKIMNITQEDFKLENLTLLDLSGNCPRCYNAPFPCTPCKENSSIIHPLAFQS
 LTQLLYLNLSSLSLRTIPSTWFENLSNLKELHLEFNLYVQEIASGAFLTKLPSLQILDLSFNFYKEYLQ
 FINISSNFSKLRSLKHLRQYVVFRELKKKHFEHLQSLPNLATINLGINFIEKIDFKAFQNF SKLDVIYL
 SGNRIASVLDGTDYSSWRNRLRKPLSTDDDEFDPHVNFYHSTKPLIKPQCTAYGKALDLSLNNIFIIGKS
 QFEGFQDIACLNL SFNANTQVFNGTEFSSMPHIKYL DL TNNRDLDFDNNAFSDLHDLEVLDSLHNAHYFS
 IAGVTHRLGFIQNLINLRVNL SHNGIYTLTEESELKSI SLKELVFSGNRLDRLWNANDGKYWSIFKSLQ
 NLIRLDLSYNNLQQIPNGAFLNLPQSLQELLISGNKLRFFNWTL LQYFPHLHLLDL SRNELYFLPNCLSK
 FAHSLETLLL SHNHSHLPSGFLSEARNLVHLDL SFNTIKMINKSSLQTKMKTNLSILELHGNYFDCTCD
 ISDFRSWLDENLNITIPKLVNVI CSNPGDQKSKS IMSLDL TTCVSDTTAAVLF FFLTFTSMVMLAALVH
 HLFYWDVWFIYHMCASAKLKGRTSSTSQTIFYDAYISYDTKDASVTDWVINELRYHLEESD KSVLLCLEE
 RDWDPGLPIIDNLMQSIHQSKTIFVLTKKYAKSWNFKTA FYLALQRLMDENMDV IIFILLEPVLQYSQY
 LRLRQRICKSSILQWPNPKAENLFWQSLKNVVL TENDSRYYDDL YIDSIRQY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9012_a12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_133212

ORF Size: 3096 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_133212.3](#), [NP_573475.2](#)

RefSeq Size: 3158 bp

RefSeq ORF: 3099 bp

Locus ID: 170744

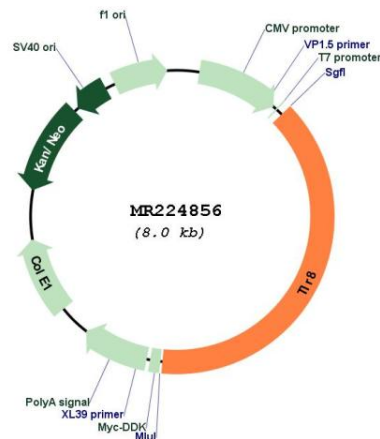
UniProt ID: [P58682](#)

Cytogenetics: X F5

MW: 119.8 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. Acts via MYD88 and TRAF6, leading to NF-kappa-B. activation, cytokine secretion and the inflammatory response (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224856