

Product datasheet for **MR210761**

Tlr6 (NM_011604) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr6 (NM_011604) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlr6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210761 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTAAAGTCCCTCTGGGATAGCCTCTGCAACATGAGCCAAGACAGAAAACCCATCGTGGGGAGTTTCC
ACTTTGTTTGCGCCCTGGCCTTAATAGTCGGAAGCATGACCCCGTTCTCTAATGAACTTGAGTCTATGGT
AGACTATTCAAACAGGAACCTTACTCATGTCCCAAAGACCTGCCACCAAGAACAAAAGCCCTGAGTCTG
TCTCAAACCTCTATATCTGAGCTTCGGATGCCTGATATCAGCTTCTGTGAGAGCTGAGAGTTCTGAGAC
TCTCCACAACAGGATACGGAGCCTTGATTTCCATGTATTCTTGTTCATCAGGACTTAGAATACCTGGA
TGTCTCACACAATCGGTTGCAAAACATCTCTTGTGCCCTATGGCGAGCCTGAGGCATCTAGACCTCTCA
TTCAATGACTTTGATGTACTGCCTGTGTGAAGGAATTTGGCAACCTGACGAAGCTGACTTTCCTGGGAT
TAAGTGTGCAAAGTCCGACAACCTGGATCTGCTCCAGTTGCTCACTTGCATCTAAGCTGCATTCTTCT
GGACTTAGTGAGTTATCATATAAAAGGGCGGGAAACAGAAAGTCTTCAGATTCCCAATACCACCGTTCTC
CATTTGGTCTTTCATCCAATAGCTTGTCTGTTCAGTGAACATGTCTGTAAACGCTTTAGGACATT
TACAACCTGAGTAATATTAATGAATGATGAAAACCTGTCAAAGGTTAATGACATTTTTATCAGAACCTCAC
CAGAGGTCCAACCTTATTGAATGTGACCCTCCAGCACATAGAAAACACCTGGAAGTGTCCGGTAAACTT
TTCCAATCTTTTGGCCCCGACCGGTGGAGTACCTCAATATTTACAACCTAACGATAACTGAGAGAATCG
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GACACCCCTTTCATCCACATGGTGTGCCGCCATCCCCAAGCTCATTTACATTTCTGAACCTTACCCAGA
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GAATGGTTTTGAAGAACCTTTTTAAAGTAGCTCTCATGACTAAGAATATGCCTCTCTGAAAACCTTTGGAT
GTTAGTTTGAATCTTTGAACTCTCATGCATATGACAGGACATGCGCCTGGGCTGAGAGCATATTGGTGT
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CCTTCACAACAACAGGATAATGAGCATCCCTAAAGATGTCACCCACCTGCAGGCTTTGCAGGAACCTCAAT
GTAGCATCCAACCTTAACTGACCTTCTGGGTGTGGGGCTTCCAGCAGCTTCTGTGCTGGTCAATCG
ACCATAACTCAGTTTCCCATCCCTCTGAGGATTTCTTCCAGAGCTGTGAGAATATTAGATCCCTAACAGC
GGGAAACAACCCATTCCAATGCACATGTGAGCTGAGGGACTTTGTCAAGAACATAGGCTGGGTAGCAAGA
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GGGACTTCCACATGTCTCCACTGTCTGTGATACTGTTCTGTGACTATACCATCGGGGCCACTATGCT
GGTGTGGCTGTCACTGGGGCTTCTCTGTCTACTTTGACCTGCCCTGGTATGTGAGGATGCTGTGT
CAGTGGACACAGACCAGGCACAGGGCCAGGCACATCCCCTTAGAGGAACTCCAGAGAAACCTCCAGTTCC
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TACTTGAATGGCCTACTGAGAAGGGCAAACGTGGGCTGTTTTGGCCAACCTTAGAGCTTCATTTATTA
TGAAGTTAGCCTTAGTCAATGAGGATGATGTGAAAACCT

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ACAAGGATGACGACGATAAGGTTTAA

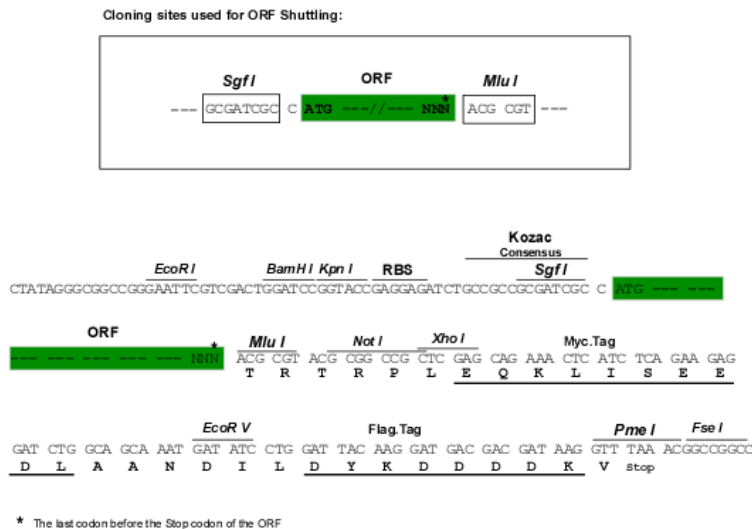
Protein Sequence: >MR210761 protein sequence
Red=Cloning site Green=Tags(s)

MVKSLWDSL CNMSQDRKPIVGSFHFVFCALALIVGSMT PFSNELESMDVYSNRNL THVPKDLPPRTKALSL
 SQNSISELRMPDISFLSELRLRLSHNRIRSLDFHVFLFNQDLEYLDVSHNRLQNISCCPMASLRHLDLS
 FNDFDVL PVCKEFGNLTKL TFLGL SAAKFRQLDLLPVAHLHLSCILLDL VSYHIKGETESLQIPNTTVL
 HL V FHPNSL FSVQVNMSVNALGHLQLSNIKLN DENCQRLMTFLSEL TRGPTLLNVTLQHIETTWC SVKL
 FQFFWPRPVEYLNIYNLTITERIDREEFYSETALKSLMIEHVKNQVFLF SKEALYSVFAEMNIKMLSIS
 DTPFIHMVCPSPSSFTFLNFTQNVFTDSV FQGCSTLKR LQTLILQRNGLKNFFKVALMTKNMSSLETLD
 VSLNSLNSHAYDR TCAWAESILVNLSSNMLTGSVFRCLPPKVKVLDLHNNRIMSIPKDVTHLQALQELN
 VASNLTDLPGCGAFSSLSVLVIDHNSVSHPSDEFQSCQNI RSLTAGNPFQCTCEL RDFVKNIGWVAR
 EVVEGW PDSYRCDY PESSKGTALRDFHMSPLSCDTVLLTITIGATMLVLAVTGAF LCLYFDLPWYVRMLC
 QWTQTRHRARHIPLEELQRNLQFHAFVSYSEHDSAWKNELLPNLEKDDIRVCLHERNFVPGKSIVENII
 NFIEKSYK AIFVLSPHFIQSEWCHYELYFAHNL FHEGSDNLI LILLEPILQNNIPSRYHKLRALMAQRT
 YLEWPTEKGRGLFWANLRASFIMKLALVNEDDVKT

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011604

ORF Size: 2421 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_011604.2](#)

RefSeq Size: 2600 bp

RefSeq ORF: 2421 bp

Locus ID: 21899

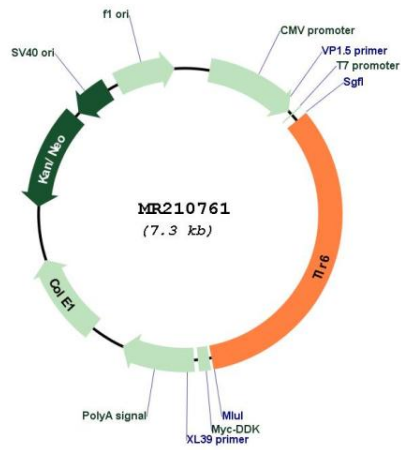
UniProt ID: [Q9EPW9](#)

Cytogenetics: 5 33.54 cM

MW: 92.4 kDa

Gene Summary: Participates in the innate immune response to Gram-positive bacteria and fungi. Specifically recognizes diacylated and, to a lesser extent, triacylated lipopeptides (PubMed:19931471). In response to diacylated lipopeptides, forms the activation cluster TLR2:TLR6:CD14:CD36, this cluster triggers signaling from the cell surface and subsequently is targeted to the Golgi in a lipid-raft dependent pathway. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Recognizes mycoplasmal macrophage-activating lipopeptide-2kD (MALP-2), soluble tuberculosis factor (STF), phenol-soluble modulin (PSM) and B.burgdorferi outer surface protein A lipoprotein (OspA-L) cooperatively with TLR2. In complex with TLR4, promotes sterile inflammation in monocytes/macrophages in response to oxidized low-density lipoprotein (oxLDL) or amyloid-beta 42. In this context, the initial signal is provided by oxLDL- or amyloid-beta 42-binding to CD36. This event induces the formation of a heterodimer of TLR4 and TLR6, which is rapidly internalized and triggers inflammatory response, leading to the NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion (PubMed:20037584, PubMed:23812099).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210761