

Product datasheet for **MR226857**

Tlr1 (NM_030682) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tlr1 (NM_030682) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Tlr1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>MR226857 representing NM_030682
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACTAAACCAATTCCTCATCTTCTACTGTATCATTGTTTTAGGACTGACACTTATGAAAATCCAAT
TATCTGAGGAATGTGAGCTTATCATAAAGAGGCCAAACGCAAACCTTACCAGAGTGCCCAAGGACCTACC
CTTGCAAACAACACTTTAGATCTATCAGAAAACAATATATCTGAGCTTCAGACTTCTGACATCCTCTCA
TTGTCCAAGCTGAGGGTCTGATAATGTCTACAACAGACTCCAGTATCTTAATATCAGTGTTCCTCAAAT
TCAACACAGAGCTGGAATATTTGGATTTGTCCACAATGAGCTAAAGGTGATCTTGTGCCACCCAACAGT
CAGCCTCAAGCATTGGACCTCTCTTTAATGCCTTTGATGCCCTGCCTATATGCAAAGAATTTGGCAAC
ATGTCCCAACTACAGTTCCTGGGTTGAGCGTTCTCGGGTACAAAGTCAAGTGTGCAGCTGATTGCTC
ATTTGAACATCAGTAAGTTTTGCTGGTGTAGGAGATGCTTATGGGAAAAAGAAGACCCCGAATCTCT
TCGGCACGTTAGCACTGAGACTCTGCATATTGTTTTCCCGTCGAAAAGAGAATTCGGTTTTCTTCTGGAT
GTGTCCGTGAGCACTACGATCGGTTTGGAACTGTCTAACATCAAGTGTGTGCTTGAAGACCAGGGCTGCT
CTTATTTCTTACGTGCTTTGTCAAAGCTTGAAAAGAATCTGAAGCTCTCAAATCTTACCCTGAACATGT
GGAAACAACGTGGAAATTCCTTCAATAATCCTCCAGATAGTTTGGCATAACGACAGTCAAATATTTCTCA
ATTTCAAATGTGAAGCTACAAGTCAACTTGCCTTCCAGATGTTCAATTATTCTGACACTTCTCTGAAGG
CTTTGTGATACATCAAGTTGCTACTGATGTCTTCCAGCTTCCCCAAAGTTACATATACAGTATCTTTGC
CAATATGAACATCCAAAACCTTACAATGTCTGGAACACACATGGTCCACATGCTGTGCCCGTCCCAAGTT
AGCCCATTTCTGCATGTGGACTTTACAGATAACCTTTAACAGACATGGTTTTTAAAGACTGTAGAACT
TAGTTAGATTGAAAACACTTAGTTTACAAAAGAATCAGTTAAAAACCTTGAGAATATAATCCTCACATC
TGCAAAGATGACATCCCTACAAAACACTAGACATTAGCCAGAATTCTAAGGTACAGCGATGGGGGAATC
CCATGCGCCTGGACCCAGAGTTTGTAGTTTTAAATTTGTCTTCAATATGCTTACAGGCTCTGTCTTCA
GATGCTTACCTCCCAAAGTCAAGGTCTTGACCTTCAACAACAGGATAATGAGCATCCCTAAAGATGT
CACCCACCTGCAGGCTTTGCAGGAACCTCAATGTAGCATCCAACCTCTTAACTGACCTTCTGGGTGCGGG
GCCTTCCAGCAGCTTTCTGTGCTGGTCTCGACCATAACTCAGTTTCCCATCCCTCTGAGGATTTCTTCC
AGAGCTGTCAGAATATTAGATCCCTAACAGCGGGAAACAACCCATTCCAATGCACATGTGAGCTGAGGGA
CTTTGTCAAGAACATAGGCTGGTAGCAAGAGAAGTGGTGGAGGGCTGGCCTGACTTTACAGGTGTGAC
TACCCAGAAAGCTCTAGGGGAACCTGCATGAGGGACTTCCACATGTCTCCACTATCTGTGATACTGTT
TGCTGACTGTACCATCGGGGCCACTATGCTGGTGTGGCTGTACTGGGGCTTTCCTCTGTCTCTACTT
TGACCTGCCCTGGTATGTGAGGATGCTGTGTGTCAGTGGACACAGACCAGGCACAGGGCCAGGCACATCCCC
TTAGAGGAACTCCAGAGAAACCTCCAGTCCATGCTTTTGTCTCATACAGTGGGCATGATTTGCCTGGG
TGAAGAACGAATTACTACCCAACCTAGAGAAAGATGACATCCAGATTTGCCTCCATGAGAGGAACCTTTGT
CCCTGGCAAGAGCATTGTGGAGAACATCATCAATTTCAATTGAGAAGAGTTACAAGTCCATCTTTGTGCTG
TCTCCCACTTCCATCCAGAGTGAAGTGGTGTCTTATGAACTCTATTTGCCCATCACAATCTCTTCCATG
AAGGCTCTGATAACTTAATCCTCATCTTGTGTCACCCATTCCCCAGTACTCCATCCCTACCAATTACCA
CAAGCTCAAAACTCTCATGTACGAAGGACCTATCTGGAATGGCCACAGAGAAGAACAAGCATGGACTT
TTTTGGGCAAACTAAGAGCATCCATTAATGTTAAGCTGGTTAACCCAGGCAGAAGGAACGTGTTACACAC
AGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226857 representing NM_030682
Red=Cloning site Green=Tags(s)

MTKPNSLIFYCIIVLGLTLMKIQLECEELIIKRPANL TRVPKDLPLQTTTLDLSQNNISELQTS DILS
LSKLRVLI MSYNRLQYLNISVFKFNTLEYLDL SHNELKVILCHPTVSLKHLDL SFNAFDALPICKEFGN
MSQLQFLGLSGSRVQSSSVQLIAHLNISKVLLVLGDAYGEKEDPESLRHVSTETLHIVFPSKREFRFLD
VSVSTTIGLELSNIKCVLEDQGCSYFLRALSKLGKNLKLSNLT LNNVETTWSFINILQIVWHTPVKYFS
ISNVKLQGQLAFRMFNYSDSLKALS IHQVVDVFSFPQSYIYSIFANMNIQNF TMSGTHMVHMLCPSQV
SPFLHVDFTDNLLTDMVFKDCRNLVRLKTL SLQKNQLKNLENIILTS AKMTSLQKLDISQNSLRYS DGGI
PCAWTQSL LVLNLSSNMLTGSVFRCLPPKVKVL DLHNNRIMSIPKDVTHLQALQELNVA SNSLTDLP GCG
AFSSLV LVIDHNSVSHPS EDDFFQSCQNIRSL TAGNNPFQCTCEL RDFVKNI GWVAREVVEGW PDSYRCD
YPESSRG T ALRDFHMSPLSCDTVLLTVTIGATMLVLA VTGAFCLYFDLPWYVRMLCQWTQTRHRARHIP
LEELQRNLQFHAFVSYSGHDSA WVKNELLPNLEKDDIQICLHERNFVPGKSIVENI INFIEKSYKSIFVL
SPHF IQSEWCHYELYFAHHLNFHEGSDNLILILLAPIQYSIPTNYHKLKTLMSRRTYLEWPT EKNKHGL
FWANLRASINVKLVNQAE GTCYTQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_a10.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_030682

ORF Size: 2385 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_030682.2](#), [NP_109607.1](#)

RefSeq Size: 2721 bp

RefSeq ORF: 2388 bp

Locus ID: 21897

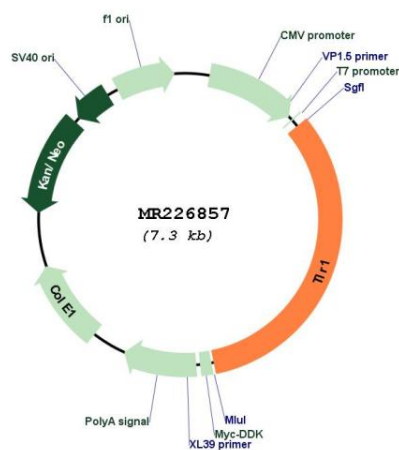
UniProt ID: [Q9EPQ1](#)

Cytogenetics: 5 33.53 cM

MW: 91.1 kDa

Gene Summary: Participates in the innate immune response to microbial agents. Specifically recognizes diacylated and triacylated lipopeptides. Cooperates with TLR2 to mediate the innate immune response to bacterial lipoproteins or lipopeptides. Forms the activation cluster TLR2:TLR1:CD14 in response to triacylated lipopeptides, 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 (By similarity). Acts as a coreceptor for M.tuberculosis lipoproteins LprG, LpqH and PhoS1 (pstS1), in conjunction with TLR2 and for some but not all lipoproteins CD14 and/or CD36. The lipoproteins act as agonists to modulate antigen presenting cell functions in response to the pathogen (PubMed:19362712).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226857