

Product datasheet for MR227011

Tlr9 (NM_031178) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tlr9 (NM_031178) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tlr9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227011 representing NM_031178 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGTTCTCCGTCGAAGGACTCTGCACCCCTTGTCCCTCCTGGTACAGGCTGCAGTGTGGCTGAGACTC
TGGCCCTGGGTACCCTGCCTGCCTTCTACCCTGTGAGCTGAAGCCTCATGGCCTGGTGGACTGCAATTG
GCTGTTCTGAAGTCTGTACCCCGTTTCTCTGCGGCAGCATCTGCTCCAACATCACCCGCTCTCCTTG
ATCTCCAACCGTATCCACCACCTGCACAACCTGACTTCGTCCACCTGTCCAACCTGCGGCAGCTGAACC
TCAAGTGAACCTGTCCACCACCTGGCCTTAGCCCTGCACCTTCTTTGCCACATGACCATTGAGCCCGA
AACCTTCCCTGGCTATGCGTACACTGGAGGAGCTGAACCTTGAGCTATAATGGTATCACCACTGTGCCCGA
CTGCCAGCTCCCTGGTGAATCTGAGCCTGAGCCACACCAACATCCTGGTTCTAGATGCTAACAGCCTCG
CCGGCCTATACAGCCTGCGGTTCTCTTCATGGACGGAACTGCTACTACAAGAACCCTGCACAGGAGC
GGTGAAGGTGACCCAGGCGCCCTCCTGGGCTGAGCAATCTCACCCATCTGTCTCTGAAGTATAACAAC
CTCACAAGGTGCCCCGCAACTGCCCCCAGCCTGGAGTACCTCCTGGTGTCTATAACCTCATTGTCA
AGCTGGGGCTGAAGACCTGGCCAATCTGACCTCCCTTCGAGTACTTGATGTGGGTGGGAATTGCCGTCG
CTGTGACCATGCCCCAATCCCTGTATAGAATGTGGCCAAAAGTCCCTCCACCTGCACCCCTGAGACCTTC
CATCACCTGAGCCATCTGGAAGGCTGGTGTGAAGGACAGCTCTCTCCATACACTGAACCTTTCCTGGT
TCCAAGGTCTGGTCAACCTCTCGGTGCTGGACCTAAGCGAGAACCTTCTCTATGAAAGCATCACCCACAC
CAATGCCTTTCAGAACCTAACCCGCTGCGCAAGCTCAACCTGTCTTCAATTACCGCAAGAAGGTATCC
TTTGCCCGCTCCACCTGGCAAGTTCCTTAAAGAACCTGGTGTCACTGCAGGAGCTGAACATGAACGGCA
TCTTCTCCGCTTGTCTCAACAAGTACACGCTCAGATGGCTGGCCGATCTGCCAAACTCCACACTCTGCA
TCTTCAAATGAACCTCATCAACCAGGCACAGCTCAGCATCTTTGGTACCTTCGAGCCCTTCGCTTTGTG
GACTTGTGAGACAATCGCATCAGTGGGCTTCAACGCTGTGAGAGCCACCCCTGAAGAGGCAGATGATG
CAGAGCAGGAGGAGCTGTTGTCTGCGGATCCTCACCCAGCTCCGCTGAGCACCCCTGCTTCTAAGAACTT
CATGGACAGGTGAAGAACTTCAAGTTCACCATGGACCTGTCTCGGAACAACCTGGTACTATCAAGCCA
GAGATGTTTGTCAATCTCTCAGCCTCCAGTGTCTTAGCCTGAGCCACAACCTCCATTGCACAGGCTGTCA
ATGGCTCTCAGTTCCTGCCGCTGACTAATCTGCAGGTGCTGGACCTGTCCATAACAACCTGGACTTGTA



[View online »](#)

CCACTGGAATCGTTCAGTGAGCTACCACAGTTGCAGGCCCTGGACCTGAGCTACAACAGCCAGCCCTTT
 AGCATGAAGGGTATAGGCCACAATTTTCAGTTTTGTGACCCATCTGTCCATGCTACAGAGCCTTAGCCTGG
 CACACAATGACATTACATACCCGTGTGCTCTCACATCTCAACAGCAACTCAGTGAGGTTTCTTGACTTCAG
 CGGCAACGGTATGGGCCGATGTGGGATGAGGGGGGCCTTATCTCCATTTCTTCAAGGCCCTGAGTGCC
 CTGCTGAAGCTGGACCTGTCTAAAATAACCTGCATATCCTCCGGCCCCAGAACCTTGACAACTCCCA
 AGAGCCTGAAGCTGCTGAGCCTCCGAGACAACCTACCTATCTTTCTTAACTGGACCAGTCTGTCTCTCT
 ACCCAACCTGGAAGTCTAGACCTGGCAGGCAACCAGCTAAAGGCCCTGACCAATGGCACCTGCCTAAT
 GGCACCCTCCTCCAGAACTCGATGTAGTAGCAACAGTATCGTCTCTGTGGTCCCAGCCTTCTCGCTC
 TGGCGGTCGAGCTGAAAGAGGTCAACCTCAGCCACAACATTCTCAAGACGGTGGATCGCTCCTGGTTTGG
 GCCATTGTGATGAACCTGACAGTTCTAGACGTGAGAAGCAACCCTCTGCACTGTGCCTGTGGGGCAGCC
 TTCGTAGACTTACTGTTGGAGGTGCAGACCAAGGTGCCTGGCCTGGCTAATGGTGTGAAGTGTGGCAGCC
 CCGGCCAGCTGCAGGGCCGTAGCATCTTCGCGCAGGACCTGCGGCTGTGCCTGGATGAGTCTCTCTTG
 GGACTGCTTTGCCTTTCACTCTGGCTGTGGCCGTGGCATGGTGGTGCCTATACTGCACCATCTCTGC
 GGCTGGGACGTCTGGTACTGTTTTATCTGTGCCTGGCATGGCTACCTTTGCTAGCCCGCAGCCGACGCA
 GCGCCAAACTCTCCCTATGATGCCTTGTGGTGTTCGATAAGGCACAGAGCGCAGTTGCCGACTGGGT
 GTATAACGAGCTGCGGGTGCAGGCTGGAGGAGCGCGCGGCCGAGCCCTACGCTTGTGTCTGGAGGAC
 CGAGATTGGCTGCCTGGCCAGACGCTCTTCGAGAACCTCTGGGCTTCCATCTATGGGAGCCGAAGACTC
 TATTTGTGCTGGCCACACGGACCGCTCAGTGGCCTCCTGCGCACACAGCTTCTGCTGGCTCAGCAGCG
 CCTGTTGGAAGACCGCAAGGACGTGGTGGTGTGGTGTATCCTGCGTCCGGATGCCACCAGCTCCCCTAT
 GTGCGACTGCGCCAGCGTCTCTGCCCCAGAGTGTGCTCTTGGCCCCAGCAGCCCAACGGGCAGGGGG
 GCTTCTGGGCCAGCTGAGTACAGCCCTGACTAGGGACAACCGCCACTTCTATAACCAGAACTTCTGCC
 GGGACCTACAGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227011 representing NM_031178
 Red=Cloning site Green=Tags(s)

MVLRRTLHPLSLLVQAVLAETLALGTLPAFLPCELKPHGLVDCNWLFLKSVPRFSAASCSNITRSL
 ISNRIHHLHNSDFVHLSNLRQLNLKWNCPPTGLSPLHFSCHMTIEPRFLAMRTLLEELNLSYNGITTVPR
 LPSSLVNLSSLHTNIVLDANSLAGLYSLRVLFMDGNCYKPNCTGAVKVTPGALLGLSNLTHLSLKYN
 LTKVPRQLPPSLEYLLVSYNLIVKLGPELANLTLRVLVDVGGNCRCDHAPNPCIIEGQKSLHLHPETF
 HHLSHLEGLVLDSSLHTLNSSWFQGLVNLVLDLSENFLEYESIHTNAFQNLTRLRKLNLNFYRKKVS
 FARLHLASSFKNLVSLQELNMGIFFRLLNKYTLRWLADLPKLHLHLQMNFINQAQLSIFGTFRALRFV
 DLSNRIISGPSTLSEATPEEADDAEQEELL SADPHAPLSTPASKNFMDRCKNFKFTMDLSRNNLVTIKP
 EMFVNL SRLQCLSLSHNSIAQAVNGSQFLPLTNLQVLDL SHNKL DLYHWKSFSELPQLQALDLSYNSQPF
 SMKGIGHNFSFVTHLSMLQSLSLAHNDIHTRVSSHLNSNSVRFDFSGNGMGRMWDEGGLYLHFFQGLSG
 LLKLDLSQNNLHILRPQNL DNLPKSLKLLSLRDNYLSFFNWTLSFLPNLEVL DLAGNQLKAL TNGTLPN
 GTLLQKLDVSSNSIVSVVPAFFALAVELKEVNL SHNILKTVDRSWFGPIVMNLTVLDVRSNPLHCCAGAA
 FVDLLLEVQTKVPGLANGVKCGSPGQLQGRSIFAQDLRLCLDEVLSWDCFLSLLAVAVGMVPIHLHLC
 GWDVWYCFHLCLAWLPLLARSRRSAQTLPYDAFVVFDKAQSADWVYNELRVRL EERRGRRALRLCLED
 RDWLPQQLFENLWASIVGSRKTLFVLAHTDRVSGLLRTSFLLAQQRLLEDKDVVVLVILRPDAHRSRY
 VRLRQLCRQSVLFWPQQPNGQGGFWAQLSTALTRDNRHFYNQFCRGPTAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9012_a10.zip

Restriction Sites:

Sgfl-MluI

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_031178.2](#), [NP_112455.2](#)

RefSeq Size: 3471 bp

RefSeq ORF: 3099 bp

Locus ID: 81897

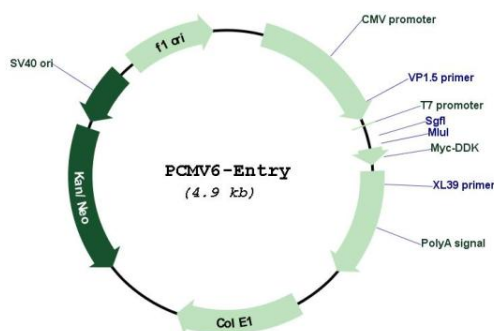
UniProt ID: [Q9EQU3](#)

Cytogenetics: 9 F1

MW: 116.4 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. TLR9 is a nucleotide-sensing TLR which is activated by unmethylated cytidine-phosphate-guanosine (CpG) dinucleotides. Acts via MYD88 and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response (PubMed:18931679, PubMed:21402738, PubMed:14993594, PubMed:17474149, PubMed:25686612, PubMed:18820679). Plays a role in defense against systemic mouse cytomegalovirus infection (PubMed:14993594). Controls lymphocyte response to Helicobacter infection (PubMed:17474149). Upon CpG stimulation, induces B-cell proliferation, activation, survival and antibody production (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227011