

Product datasheet for RC221986

TLR8 (NM_138636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR8 (NM_138636) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLR8
Synonyms:	CD288
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221986 representing NM_138636 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAACATGTTCTTCAGTCGTCATGCTGACCTGCATTTCTGCTAATATCTGGTTCCTGTGAGT
TATGCGCCGAAGAAAATTTTCTAGAAGCTATCCTTGTGATGAGAAAAAGCAAAATGACTCAGTTATTGC
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TCTGATAATTTTCATCACACACATAACGAATGAATCATTCAAGGGCTGCAAAATCTCACTAAAATAAATC
TAAACCACAACCCCAATGTACAGCACCAGAACGGAAATCCGGTATACAATCAAATGGCTTGAATATCAC
AGACGGGGCATTCTCAACCTAAAAACCTAAGGGAGTTACTGCTTGAAGACAACCGATTACCCCAATA
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CGAGAAAACTAACATAGAAGATGGAGTATTTGAAACGCTGACAAATTTGGAGTTGCTATCACTATCTTTC
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AGCCTCTGGGGCATTTTTAACGATGCTGCCCGCTTAGAAATACTTGACTTGTCTTTAACTATATAAAG
GGGAGTTATCCACAGCATATTAATTTCCAGAACTTCTCTAAACTTTTGTCTCTACGGGCATTGCATT
TAAGAGGTTATGTGTTCCAGGAACCTCAGAGAAGATGATTTCCAGCCCCTGATGCAGCTTCCAAACTATC
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GTTCTCTTTTCAACGTATATCCGAAACGACGCTCAACAGATTTTGTGTTGACCCACATTGCAACTT
TTATCATTTCACCCGTCCTTTAATAAAGCCACAATGTGCTGCTTATGAAAAGCCTTAGATTTAAGCCTC



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AACAGTATTTTCTTCATTGGGCCAAACCAATTTGAAAATCTTCCTGACATTGCCTGTTTAAATCTGTCTG
 CAAATAGCAATGCTCAAGTGTAAAGTGGAACTGAATTTTCAGCCATTCTCATGTCAAATATTTGGATT
 GACAAACAATAGACTAGACTTTTGATAATGCTAGTGCTTACTGAATTGTCCGACTTGGAAGTTCTAGAT
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 AACAGCTTTTTACTTGGCTTTGCAGAGGCTAATGGATGAGAACATGGATGTGATTATTTATCTGCTG
 GAGCCAGTGTTACAGCATTCTCAGTATTTGAGGCTACGGCAGCGGATCTGTAAGAGCTCCATCCTCCAGT
 GGCCTGACAACCCGAAGGCAGAAGGCTTGTTTTGGCAAACCTGAGAAAATGTGGTCTTGACTGAAAATGA
 TTCACGGTATAACAATATGTATGTCGATTCCATTAAGCAATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221986 representing NM_138636

Red=Cloning site Green=Tags(s)

MENMFLQSSMLTCIFLLISGSELCAEENFSRYPCEKKQNDVIAECSNRRLQEVPTVQYVTELDL
 SDNFITHITNESFQGLQNLTKINLNHNPNVQHONGNPGIQSNGLNITDGAFLNLKNLRELLLEDNQLPQI
 PSGLPESLTELSLIQNNIYNITKEGISRLINLKNLYLAWNCYFNKVCEKTNIEDGVFETLTNLELLSLSF
 NSLSHVPPKLPSSLRKFLSNTQIKYISEEDFKGLINLTLLDLSGNCPFCFNAPPCVPCDGGASINIDR
 FAFQNLQLRYLNLSSLSLRKINAAWFKNMPHLKVLDFEFNYLVGEIASGAFLTMLPRLEILDLSFNLIK
 GSYQPHINISRNFSKLLSLRALHLRGYVFQELREDDFQPLMQLPNLSTINLGINFIKQIDFKLFQNFSLN
 EIIYLSENRISPLVKDTRQSYANSSSFQRHIRKRRSTDFEFDPHSNFYHFTRPLIKPQCAAYGKALDLSL
 NSIFFIGPNQFENLPDIACLNLSANSNAQVLSGTEFSAIPHVKYLDLTNNRDLDFDNASALTELELDL
 LSYNSHYFRIAGVTHLEFIQNFNLKVLNLSHNNIYTLTDKYNLESKSLVELVFSGNRLDILWDDDDNR
 YISIFKGLKNLTRLDSLNRKHIPNEAFLNLPASLTELHINDNMLKFFNWTLQFPRELLDLRGNKL
 LFLTDSLSDFTSSLRLLL SHNRISHLPSGFLSEVSSLKHLDLSSNLLKTINKSALETKTTTKLSMLELH
 GNPFECDIGDFRFRWDEHLNVKIPRLVDVICASPGDQRGKSI VSELELTTVCSDVTAVILFFFTFFITT
 MVMLAALAHHLFYWDVWF IYNVCLAKVKGYRSLSTSQT FYDAYISYDTK DASVTDWVINELRYHLEESRD
 KNVLLCLEERDWPGLAIDNLMQSIHQSKKTVFVLT KKYAKSWNFKTA FYLALQRLMDENMDVIFILL
 EPVLQHSQYLRRLRQRICKSSILQWPDNPKAEGLFWQTLRNVVLTENDSRYNMYVDSIKQY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_138636

ORF Size: 3123 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.

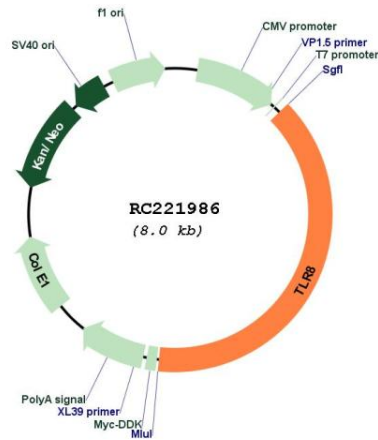
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

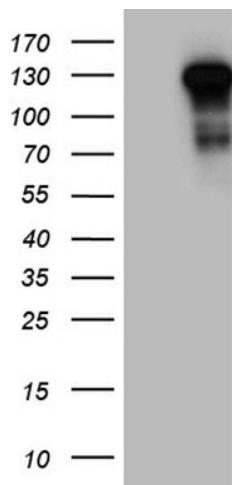
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_138636.4
RefSeq Size:	4211 bp
RefSeq ORF:	3126 bp
Locus ID:	51311
UniProt ID:	Q9NR97
Cytogenetics:	Xp22.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Toll-like receptor signaling pathway
MW:	119.6 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This gene is predominantly expressed in lung and peripheral blood leukocytes, and lies in close proximity to another family member, TLR7, on chromosome X. [provided by RefSeq, Jul 2008]</p>

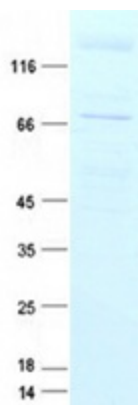
Product images:



Circular map for RC221986



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TLR8 (Cat# RC221986, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TLR8 antibody (Cat# [TA810174])(1:2000). Positive lysates [LY408461] (100ug) and [LC408461] (20ug) can be purchased separately from OriGene.



Coomassie blue staining of purified TLR8 protein (Cat# [TP321986]). The protein was produced from HEK293T cells transfected with TLR8 cDNA clone (Cat# RC221986) using MegaTran 2.0 (Cat# [TT210002]).