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Product datasheet for RC215293

TLR5 (NM_003268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TLR5 (NM_003268) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TLR5
Synonyms:	MELIOS; SLE1; SLEB1; TIL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC215293 representing NM_003268
Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

ATGGGAGACCACCTGGACCTTCTCCTAGGAGTGGTGCTCATGGCCGGTCCTGTGTTTGGAATTCCTTCCT
GCTCCTTTGATGGCCGAATAGCCTTTTATCGTTTCTGCAACCTCACCCAGGTCCCCCAGGTCCTCAACAC
CACTGAGAGGCTCCTGCTGAGCTTCAACTATATCAGGACAGTCACTGCTTCATCCTTCCCCTTTCTGGAA
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Protein Sequence:

>RC215293 representing NM_003268
Red=Cloning site Green=Tags(s)

MGDHLDLLLGVVLMAGPVFGIPSCSFDGRIAFYRFCNLTQVPQVLNTTERLLLSFNYIRTVTASSFPFLE
QLQLLELGSQYTPLTIDKEAFRNLPNLRILDLGSSKIYFLHPDAFQGLFHLFELRLYFCGLSDAVLKDGY
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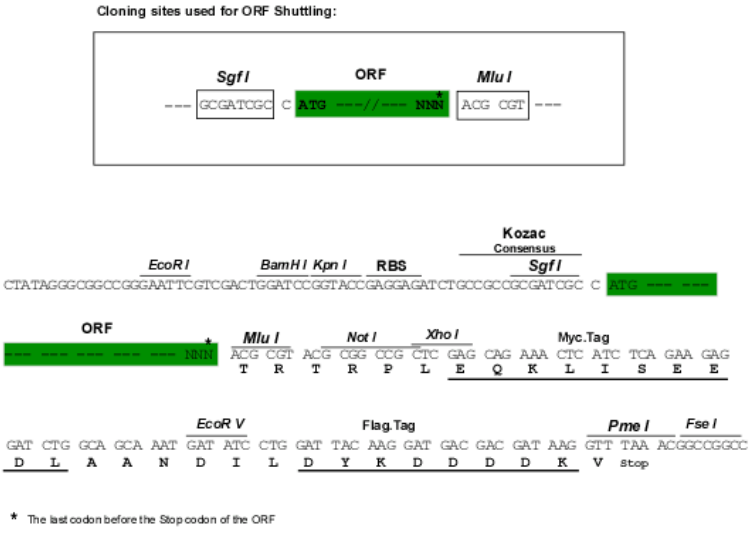
KEKKKDNNIPLQTVATIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6047_e11.zip

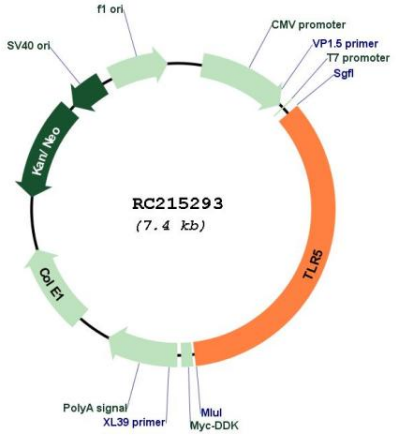
Restriction Sites: SgfI-MluI

Cloning Scheme:

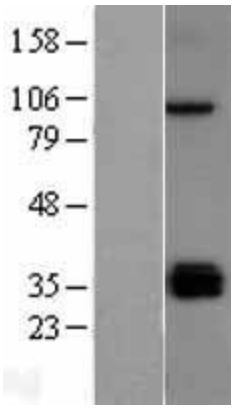


ACCN:	NM_003268
ORF Size:	2574 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_003268.6
RefSeq Size:	3369 bp
RefSeq ORF:	2577 bp
Locus ID:	7100
UniProt ID:	O60602
Cytogenetics:	1q41
Domains:	TIR, LRRCT, LRR, LRR_TYP, LRR_SD22, LRR_PS
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway
MW:	97.77 kDa
Gene Summary:	This gene encodes a member of the toll-like receptor (TLR) family, which plays a fundamental role in pathogen recognition and activation of innate immune responses. These receptors recognize distinct pathogen-associated molecular patterns that are expressed on infectious agents. The protein encoded by this gene recognizes bacterial flagellin, the principal component of bacterial flagella and a virulence factor. The activation of this receptor mobilizes the nuclear factor NF-kappaB, which in turn activates a host of inflammatory-related target genes. Mutations in this gene have been associated with both resistance and susceptibility to systemic lupus erythematosus, and susceptibility to Legionnaire disease. [provided by RefSeq, Dec 2009]

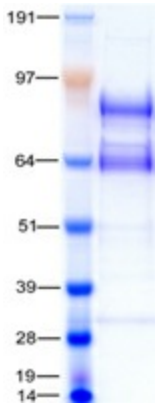
Product images:



Circular map for RC215293



Western blot validation of overexpression lysate (Cat# [LY401126]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TLR5 protein (Cat# [TP315293]). The protein was produced from HEK293T cells transfected with TLR5 cDNA clone (Cat# RC215293) using MegaTran 2.0 (Cat# [TT210002]).