

### Product datasheet for RC222820L1

# TLR4 (NM\_138554) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** TLR4 (NM\_138554) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: TLR4

Synonyms: ARMD10; CD284; TLR-4; TOLL

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC222820).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_138554

ORF Size: 2514 bp



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#### TLR4 (NM\_138554) Human Tagged Lenti ORF Clone - RC222820L1

**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 138554.2

 RefSeq Size:
 5503 bp

 RefSeq ORF:
 2520 bp

 Locus ID:
 7099

 UniProt ID:
 000206

Cytogenetics: 9q33.1

**Protein Families:** Druggable Genome, Transmembrane

Protein Pathways: Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway

**MW:** 93.2 kDa

**Gene Summary:** The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which

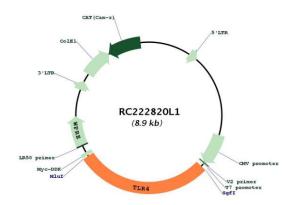
plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. In silico studies have found a particularly strong binding of surface TLR4 with the spike protein of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the causative agent of Coronavirus disease-2019 (COVID-19). This receptor has also been implicated in signal transduction events induced by linearly particle (LRS) found in most grap pagative bacteria. Mutations in this

induced by lipopolysaccharide (LPS) found in most gram-negative bacteria. Mutations in this gene have been associated with differences in LPS responsiveness, and with susceptibility to age-related macular degeneration. Multiple transcript variants encoding different isoforms

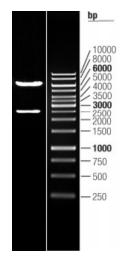
have been found for this gene. [provided by RefSeq, Aug 2020]



## **Product images:**



Circular map for RC222820L1



Double digestion of RC222820L1 using Sgfl and Mlul  $\,$