

## Product datasheet for **SC306054**

### TLR8 (NM\_138636) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TLR8 (NM_138636) Human Untagged Clone
Tag:	Tag Free
Symbol:	TLR8
Synonyms:	CD288
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306054 representing NM_138636. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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CTGTCTGATAATTTTCATCACACACATAACGAATGAATCATTTCAGGGGCTGCAAATCTCACTAAAATA
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CGGCAGAGTTATGCAAATAGTTCCTCTTTTCAACGTCATATCCGGAAACGACGCTCAACAGATTTGAG
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ATTGCCTGTTTAAATCTGTCTGCAAATAGCAATGCTCAAGTGTTAAGTGGAAGTGAATTTTCAGCCATT
CCTCATGTCAAATATTTGGATTTGACAAACAATAGACTAGACTTTGATAATGCTAGTGCTTTACTGAA
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GATTCCATTAAGCAATACTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_138636

**Insert Size:**

3126 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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA

**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\\_138636.2](#)

**RefSeq Size:** 4216 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:** 119.8 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 (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]  
Transcript Variant: This variant (2) differs in its 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) has a shorter and distinct N-terminus, compared to isoform 2. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.