

## Product datasheet for TR320554

## **TLR3 Human shRNA Plasmid Kit (Locus ID 7098)**

**Product data:** 

**Product Type:** shRNA Plasmids

**Product Name:** TLR3 Human shRNA Plasmid Kit (Locus ID 7098)

Locus ID: 7098

CD283; IIAE2 Synonyms:

Vector: pRS (TR20003)

E. coli Selection: **Ampicillin** Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

TLR3 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = Components:

7098). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

NM 003265, NM 003265.1, NM 003265.2, BC094737, BC094737.1, BC017954, BC043204, RefSeq:

BC059372, BC068487, BC096333, BC096334, BC096335, NM 003265.3

**UniProt ID:** 015455

**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 receptor is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate

different length transcripts has been noted for this gene. [provided by RefSeq, Jul 2008]

These shRNA constructs were designed against multiple splice variants at this gene locus. To shRNA Design:

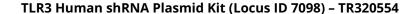
be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our custom shRNA service.



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## Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).