

Product datasheet for TF316847

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

SOCS3 Human shRNA Plasmid Kit (Locus ID 9021)

Product data:

Product Type: shRNA Plasmids

Product Name: SOCS3 Human shRNA Plasmid Kit (Locus ID 9021)

Locus ID: 9021

Synonyms: ATOD4; CIS3; Cish3; SOCS-3; SSI-3; SSI3

Vector: pRFP-C-RS (TR30014)

E. coli Selection: Chloramphenicol (34 ug/ml)

Mammalian Cell

Selection:

Puromycin

Format: Retroviral plasmids

Components: SOCS3 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 9021).

5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.

RefSeq: NM 003955, NM 003955.1, NM 003955.2, NM 003955.3, NM 003955.4, BC060858,

NM 003955.5

UniProt ID: 014543

Summary: This gene encodes a member of the STAT-induced STAT inhibitor (SSI), also known as

suppressor of cytokine signaling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene is induced by various cytokines, including IL6, IL10, and interferon (IFN)-gamma. The protein encoded by this gene

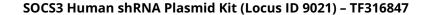
can bind to JAK2 kinase, and inhibit the activity of JAK2 kinase. Studies of the mouse

counterpart of this gene suggested the roles of this gene in the negative regulation of fetal

liver hematopoiesis, and placental development. [provided by RefSeq, Jul 2008]

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

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 <u>custom shRNA service</u>.





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).