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Product datasheet for TL500366

Socs3 Mouse shRNA Plasmid (Locus ID 12702)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Socs3 Mouse shRNA Plasmid (Locus ID 12702)
Locus ID:	12702
Synonyms:	Cis3; Cish3; EF-10; Ef10; SSI-3; Ssi3
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Socs3 - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 12702). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	BC052031, NM_007707, NM_007707.1, NM_007707.2, NM_007707.3
UniProt ID:	O35718
Summary:	SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity. Suppresses fetal liver erythropoiesis. Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells. Regulates IL-6 signaling in vivo. Probable substrate-recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (By similarity). Seems to recognize IL6ST.[UniProtKB/Swiss-Prot Function]
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 techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.

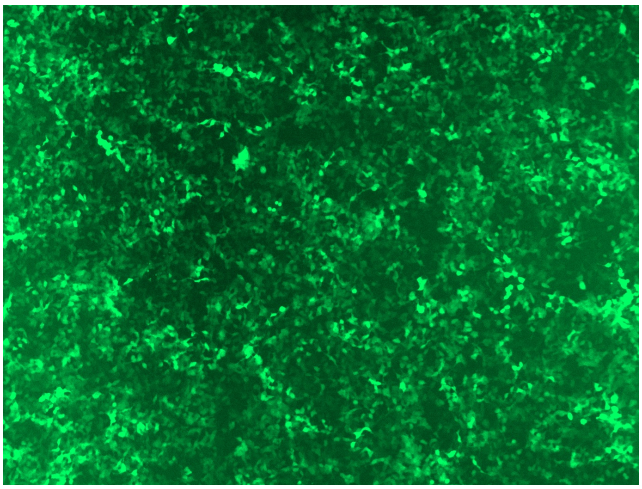
View online »

Performance Guaranteed:

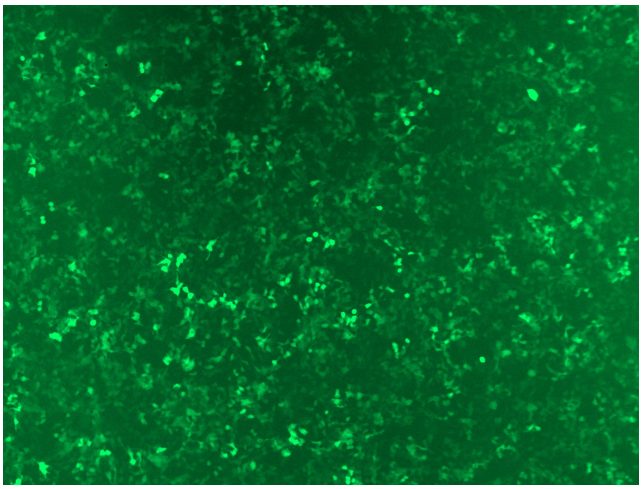
OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. 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).

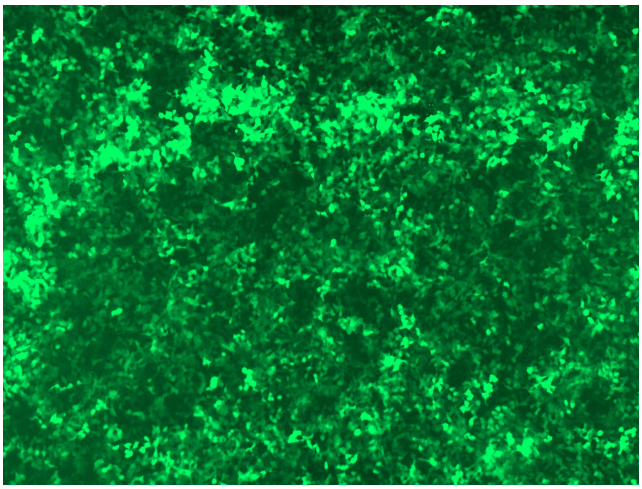
Product images:



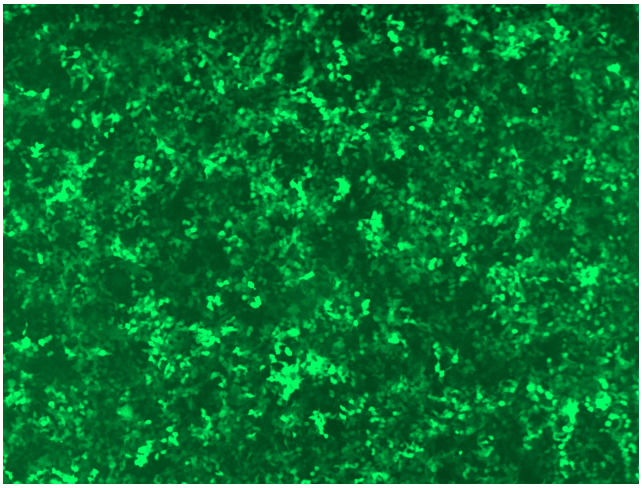
GFP signal was observed under microscope at 48 hours after transduction of TL500366A virus into HEK293 cells. TL500366A virus was prepared using lenti-shRNA TL500366A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL500366B virus into HEK293 cells. TL500366B virus was prepared using lenti-shRNA TL500366B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL500366C] virus into HEK293 cells. [TL500366C] virus was prepared using lenti-shRNA [TL500366C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL500366D] virus into HEK293 cells. [TL500366D] virus was prepared using lenti-shRNA [TL500366D] and [TR30037] packaging kit.