

Product datasheet for RC220847

SOCS1 (NM 003745) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK Symbol: SOCS1

Synonyms: AISIMD; CIS1; CISH1; JAB; SOCS-1; SSI-1; SSI-1; TIP-3; TIP3

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC220847 representing NM_003745

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220847 representing NM_003745

Red=Cloning site Green=Tags(s)

MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRTFRSHADYRRITRA SALLDACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFFALSVKMASGPTSIRVHFQAGRFHLDGS RESFDCLFELLEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVATVGRENLARIPLNPVLRDYLSSFPFQ

Ι

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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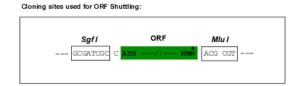
SOCS1 (NM_003745) Human Tagged ORF Clone | RC220847

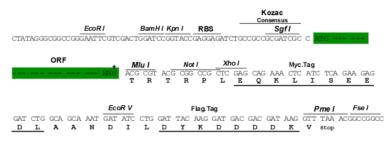
Chromatograms: https://cdn.origene.com/chromatograms/mk6111 e12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_003745

ORF Size: 633 bp

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 003745.1</u>, <u>NP 003736.1</u>

RefSeq Size: 1216 bp



 RefSeq ORF:
 636 bp

 Locus ID:
 8651

 UniProt ID:
 015524

 Cytogenetics:
 16p13.13

 Domains:
 SH2, SOCS

Protein Families: Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling

pathway

Protein Pathways: Insulin signaling pathway, Jak-STAT signaling pathway, Type II diabetes mellitus, Ubiquitin

mediated proteolysis

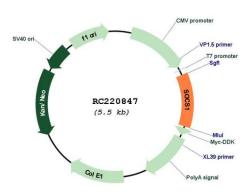
MW: 23.4 kDa

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

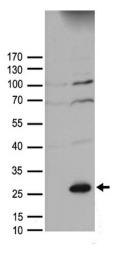
suppressor of cytokine signaling (SOCS), family. SSI family members are cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by a subset of cytokines, including IL2, IL3 erythropoietin (EPO), CSF2/GM-CSF, and interferon (IFN)-gamma. The protein encoded by this gene functions downstream of cytokine receptors, and takes part in a negative feedback loop to attenuate cytokine signaling. Knockout studies in mice suggested the role of this gene as a modulator of IFN-gamma action, which is required

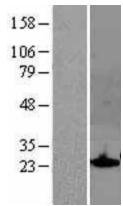
for normal postnatal growth and survival. [provided by RefSeq, Jul 2008]

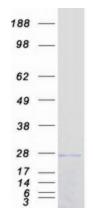
Product images:



Circular map for RC220847







HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SOCS1 (Cat# RC220847, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SOCS1 antibody (Cat# [TA890038]). Positive lysates [LY401230] (100ug) and [LC401230] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY401230]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220847 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified SOCS1 protein (Cat# [TP320847]). The protein was produced from HEK293T cells transfected with SOCS1 cDNA clone (Cat# RC220847) using MegaTran 2.0 (Cat# [TT210002]).