

Product datasheet for **RG220847**

SOCS1 (NM_003745) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOCS1 (NM_003745) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOCS1
Synonyms:	AISIMD; CIS1; CISH1; JAB; SOCS-1; SSI-1; SSI1; TIP-3; TIP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220847 representing NM_003745 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAGCACACAACCAGGTGGCAGCCGACAATGCAGTCTCCACAGCAGCAGAGCCCCGACGGCGGCCAG
AACCTTCTCCTTCTCCTCCTCGCCCCGCGCCCCCGCGCGCCCGCGCCGTGCCCGCGGTCCCGGC
CCCGCCCCGGCGACACGCACTTCGCACATTCCGTTTCGCACGCCGATTACCGGCATCACGCGCGCC
AGCGCGTCTCTGGACGCTGCGGATTCTACTGGGGCCCCCTGAGCGTGCACGGGGCGCACGAGCGGCTGC
GCGCCGAGCCCGTGGCACCTTCTGGTGCAGCAGCCGCCAGCGGAAGTCTTTTTCGCCCTTAGCGT
GAAGATGGCCTCGGGACCCACGAGCATCCGCGTGCACATTTAGGCGCGCCGCTTTACCTGGATGGCAGC
CGCGAGAGCTTCGACTGCCTCTTCGAGTGTGGAGCACTACGTGGCGGCCCGCCGCGCATGCTGGGGG
CCCCGCTGCGCCAGCGCCGCGTGCAGGCCGCTGCAGGAGCTGTGCCCGCAGCGCATCGTGGCCACCGTGGG
CCGCGAGAACCTGGCTCGCATCCCCCTCAACCCCGTCTCCGCGACTACCTGAGCTCCTTCCCCTCCAG
ATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220847 representing NM_003745
 Red=Cloning site Green=Tags(s)

MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRTRFRSHADYRRITRA
 SALLDACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFALSVKMASGPTSIRVHFQAGRFLDGS
 RESFDCLFELLEHYVAAPRRMLGAPLRQRRVRLQELCRQRIVATVGRENLARIPLNPVLRDYLSSFFPQ
 I

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003745

ORF Size: 633 bp

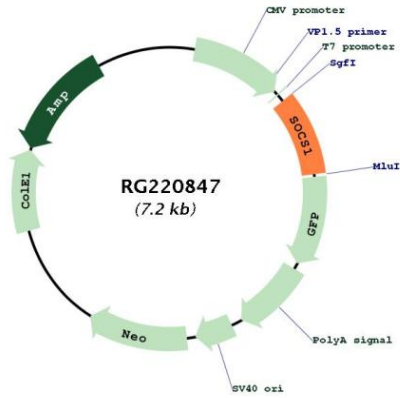
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<ol style="list-style-type: none">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_003745.1 , NP_003736.1
RefSeq Size:	1216 bp
RefSeq ORF:	636 bp
Locus ID:	8651
UniProt ID:	O15524
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
Gene Summary:	<p>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]</p>

Product images:



Circular map for RG220847