

Product datasheet for **SC111081**

SOCS1 (NM_003745) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SOCS1 (NM_003745) Human Untagged Clone
Tag: Tag Free
Symbol: SOCS1
Synonyms: AISIMD; CIS1; CISH1; JAB; SOCS-1; SSI-1; SSI1; TIP-3; TIP3
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003745 edited
 ATCGGCACCAGGGCAGCTGCACGGCTCCTGGCCCCGAGCATGCGCGAGAGCCGCCCCCGG
 AGCGCCCCGGAGCCCCCGCGTCCCGCCGCGCGTCCCGCGCCCCGCCAGCGCAC
 CCCCAGACGCTATGGCCACCCCTCCGGCTGGCCCTTCTGTAGGATGGTAGCACACAAC
 CAGGTGGCAGCCGACAATGCAGTCTCCACAGCAGCAGAGCCCCGACGGCGCCAGAACCT
 TCCTCCTCTTCTCCTCCTCGCCGCGGCCCGCGCGCCCGCGCCGTGCCCGCGGT
 CCGGCCCGGCCCGCGACACGCACTTCCGCACATTCCGTTCCGACGCCGATTACCGG
 CGCATCACGCGGCCAGCGCGCTCCTGGACGCCTGCGGATTCTACTGGGGCCCCTGAGC
 GTGCACGGGGCGCAGAGCGGCTGCGCGCCGAGCCGTGGGCACCTTCTGGTGCAGC
 AGCCGCCAGCGGAAGTCTTTTTCGCCCTTAGCGTGAAGATGGCCTCGGGACCCACGAGC
 ATCCGCGTGCACCTTTCAGGCCGGCGCTTTCACCTGGATGGCAGCCGCGAGAGCTTCGAC
 TGCCCTTCGAGCTGCTGGAGCACTACGTGGCGCGCCGCGCCGATGCTGGGGGCCCG
 CTGCGCCAGCGCGCGTGCAGGCCGCTGCAGGAGCTGTGCCGCCAGCGCATCGTGGCCACC
 GTGGGCCGCGAGAACCTGGCTCGCATCCCCCTCAACCCCGTCTCCGCGACTACCTGAGC
 TCCTTCCCCTTCCAGATTTGACCGGCAGCGCCCGCGTGCACGCAGCATTAACTGGGATG
 CCGTGTTATTTTGTATTACTTGCTGGAACCATGTGGGTACCCTCCCCGGCCTGGGTTG
 GAGGGAGCGGATGGGTGTAGGGGCGAGGCGCTCCCGCCCTCGGTGGAGACGAGGCCG
 AGACCCCTTCTCACCTCTTGAGGGGTCTCCCCCTCTGGTGTCCCTCTGGGTCCCC
 TGGTTGTGTAGCAGCTTAAGTGTATCTGGAGCCAGGACCTGAAGTGCACCTCTACCT
 CTTTCATGTTTACATATACCCAGTATCTTTGCACAAACCAGGGGTTGGGGAGGGTCTCTG
 GCTTTATTTTTCTGCTGTGCAGAATCTATTTTATATTTTTTAAAGTCAGTTTAGGTAAT
 AAACCTTATTATGAAAGTTTTTTTTTAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003745 unedited GTTCAAATTTTGTAAACGAACACTACTATAGGGCGGCCGGAATCGGCACCAGGGCAGCT GCACGGCTCCTGGCCCCGNACATGCGCGAGAGCCGCCCGGAGCGCCCCGGAGCCCCC GCCGTCCCGCCCGCGGCTCCCGCGCCCCGCCAGCGCACCCCGGACGCTATGGCCC ACCCTCCGGCTGGCCCTTCTGTAGGATGGTAGCACACAACCAGGTGGCAGCCGACAAT GCAGTCTCCACAGCAGCAGAGCCCCGACGGCGGCCAGAACCTTCCTCCTTCTCCTCC TCGCCCCGGCCCCCGCGGCCGCGGCGTCCCGCGGTCCCGGCCCGGCCCGCCCCGGC GACACGCACTTCCGCACATTCCGTTTCGACGCGGATTACCGGCGCATCACGCGCGCAGC GCGCTCCTGGACGCTGCGGATTCTACTGGGGGCCCTGAGCGTGCACGGGGCGCACGAG CGGCTGCGCGCCGAGCCCGTGGGCACCTTCTGGTGCAGCAGCCGCCAGCGGAACTGC TTTTTCGCCCTTAGCGTGAAGATGGCTCGGGACCCACGAGCATCCGCGTGCCTNTCAG GCCGGCCGCTTTCACCTGGATGGCAGCCGCGAGAGCTTCGACTGCCTTTCGAGCTGCTG GAGCACTACGTGGCGGCCCGCGCCGATGCTGNGGGCCCCGCTGCGCCAGCGCCGCT GCGGCCGCTGCNAGAGCTGTGCCCCAGCGCATCGTGGCCACCGTGGGCCGCGAGAACC TGCTCGCATCCNCTCAAACCCGTNCTNCGNGACTACCTGAGCTNCTTNCCTTNNCAG ATTGACCGNACAGCCCCCGTGCACGACGATAACTGGNATGGCGGNTNATTGTAT TACTTGCCTGGAACCCATGTGGGTACCCTCCCCGCCCTGGNNTGAGGNACGAATGNNTGT A
Restriction Sites:	NotI-NotI
ACCN:	NM_003745
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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>