

Product datasheet for **SC108265**

SOCS2 (NM_003877) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOCS2 (NM_003877) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOCS2
Synonyms:	CIS2; Cish2; SOCS-2; SSI-2; SSI2; STAT12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108265 sequence for NM_003877 edited (data generated by NextGen Sequencing)

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ATGACCCTGCGGTGCCTTGAGCCCTCCGGGAATGGCGGGAAGGGACCGGAGCCAGTGG
GGGACCGCGGGGTCGGCGGAGGAGCCATCCCCGAGCGCGCGTCTGGCGAAGGCCCTG
CGGGAGCTCGGTGAGACAGGATGGTACTGGGGAAGTACTGACTGTTAATGAAGCCAAAGAG
AAATTAAGAGGACCAAGGAAGAACTTTCTTGATTAGAGATAGCTCGCATTGAGACTAC
CTACTAACAATATCTGTTAAAACATCAGCTGGACCAACTAATCTTGAATCGAATACCAA
GACGGAAAATTCAGATTGGACTCTATCATATGTGTCAAATCCAAGCTTAAACAATTTGAC
AGTGTGGTTCATCTGATCGACTACTATGTTGAGATGTGCAAGGATAAGCGGACAGGTCCA
GAAGCCCCCGGAACGGCACTGTTACCTTTATCTGACCAAACCGCTCTACACGTCAGCA
CCATCTCTGCAGCATCTGTAGGCTCACCATTAAACAAATGTACCGGTGCCATCTGGGGA
CTGCCTTTACCAACAAGACTAAAAGATTACTTGAAGAATATAAATTCAGGTATAA
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Clone variation with respect to NM_003877.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003877 unedited TTCAAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGTTTAACTCTTG CCAAGTCTCGTCGCAGCCGCCGCGGCTGGCGGGCCTTGGGCTTCCCCTGAAGCATGAGCC CTCTCGCCCGCAGCCACCCTCACCGCTGGCCCGGACAGTGCAGCGCCGGGTCCCGGG TGCACAGCCTCAGGATACCCCGTGCCCGCAGCTCGGGCGCCCGGCAGGCGATCAGTGG GTGACCGCGGCTGCGAGGGACTTTGTATCCGTCCTCCAGGATCTGGGGAGAAAGAGCCC CATCCCTTCTCTCTGCCACCATTTTCGACACCCCGCAGGGACTCGTTTTGGGATTCGC ACTGACTTCAAGGAAGGACGCGAACCCCTTCTGTACCCAGCTCGGGCGGCCACCTGTCT TTGCCGCGGTGACCCCTTCTCATGACCCTGCGGTGCCTTGAGCCCTCCGGGAATGGCGG GGAAGGGACGCGGAGCCAGTGGGGGACCGGGGTGCGCGGAGGAGCCATCCCCGAGGC GGCGCGTCTGGCAAGGCCCTGCGGGAGCTCGGTGAGACAGGATGGTACTGGGAAGTAT GACTGTTAATGAAGCCAAAGAGAAATTAAGAGAGGCACCAAGGAACCTTCTTGATTAG AGATAGCTCGATTACACTACTAACAATATCTGTTAAAACATCAGCTGGACCAAC TAATCTTGAATCGAATACCAAGACGGAATAATCAGATTGGACTCTATCATATGTGTCAA ATCCAAGCTTAAACATNTGACAGTGTGGGTGATCTGATCACTACTATGTTTCAGATGTGCA AGGATAAGGGGACAGGTNCAAGACCCCGGAACGGCACTGGTACCTTNTCTGACCCAA CGCTCTAACGTNAGCACATCTCTGAGCATCTCTGTAGGCTACATTACAAAGTTACCGTGC ATCTTGGGGGACTNCTTTACACAGAAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003877 unedited AGCCCGCATTTTGNATCGAGTTTTTTTTTTTTTTTTTTTTAAAAATAGTTTTTTTTTATTT AATACATTCTAATCAAATAGTAACAGCAGTAAATAAACACTTTGAAAAACAGGCAGGTAT CCCCCTGTATCTGGAAGAAAATTAAGTCAAAGTATTCTACACAGTAGAAGGGAGACAAC GTTTATGTCCATGGTTAGACAATCAAGGACAACCTGGATATTTCTAAAGCCATTTCCAA AAAATCAATGGCAACAGTTGGGACACAGCTATTTCAAAGGGTAGAATGCCTATACCTAC ATTGGTTTTTATTAACGGGGATTGAGTTGCACCTGTATAGCATGATATTCTTGTCTTTAG CTTTAAAGGAAAAGAGAAAGTCTTTTCCATTTGCACCAGTTTAAAATATTTCTGAAATAA GGCTCCCATAGAATGGATTACTACAGTACTCATTACATGAGAGTTTCTACATGTAGTAA AAAGACAAATACAGGACTTCATGGTCACTTTTTTGGTTGATTTGGTTAATTGCATAAAA TGGGATAAATACTCACATACATCATCTGTTTAAACAAAACCTCTAGGTACATCAGAATGCA AAATATAAAATGCCCAAGAGACTCTGATCAGCAGGCATATCAAATGCAAGTGGAGGCTGT GTCAGCTTGGTTCTTCCCACTTCTTCAAGTATTCTATGANGAGTTCTTTCTCTCCTACT GGAGCCTGGACCTTTGACATAATGGAAAAGAACCTAAGAAAAGCAAGGCATTCTGATAAAA CGCGACTTCAGCCTTTACATGCGACATTNTATTTTTAATCTAANAGGATCACACAGTCTT GGCCAGCCTTTAGACGGAACATCACTCAGGTAAGTATCTGGAGGAACTTTAACCACT TACTACCTCTTCAAGCCTGTTAATTCAAATAGATTACCTCAGCTGTTCTTAGAAGCATT CCTTATGNTTCCACACACTCAGTTTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003877
Insert Size:	1960 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_003877.3 , NP_003868.1
RefSeq Size:	2210 bp
RefSeq ORF:	597 bp
Locus ID:	8835
UniProt ID:	O14508
Cytogenetics:	12q22
Domains:	SH2, SOCS
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway, Jak-STAT signaling pathway, Type II diabetes mellitus
Gene Summary:	<p>This gene encodes a member of the suppressor of cytokine signaling (SOCS) family. SOCS family members are cytokine-inducible negative regulators of cytokine receptor signaling via the Janus kinase/signal transducer and activation of transcription pathway (the JAK/STAT pathway). SOCS family proteins interact with major molecules of signaling complexes to block further signal transduction, in part, by proteasomal depletion of receptors or signal-transducing proteins via ubiquitination. The expression of this gene can be induced by a subset of cytokines, including erythropoietin, GM-CSF, IL10, interferon (IFN)-gamma and by cytokine receptors such as growth hormone receptor. The protein encoded by this gene interacts with the cytoplasmic domain of insulin-like growth factor-1 receptor (IGF1R) and is thought to be involved in the regulation of IGF1R mediated cell signaling. This gene has pseudogenes on chromosomes 20 and 22. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, compared to variant 5. Variants 1-6 encode the same protein.</p>