

Product datasheet for **SC320892**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003877.3
 GGGGCAGTGGGTGACCGCGGCTGCGAGGGACTTTGTCATCGGTCCTCCAGGATCTGGGGA
 GAAAGAGCCCCATCCCTTCTCTCTGCCACCATTTGGACACCCCGCAGGGACTCGTTT
 TGGGATTGCGACTGACTTCAAGGAAGGACGCGAACCCCTTCTGACCCAGCTCGGGCGG
 CCACCTGTCTTTGCCGCGGTGACCCTTCTCATGACCCTGCGGTGCCTTGAGCCCTCCG
 GGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGACCCGCGGGTTCGGCGGAGGAGCCAT
 CCCCAGCGCGGCGCTGTCGCGAAGGCCCTGCGGGAGCTCGGTGACAGAGGATGGTACT
 GGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATTAAGAGGACCCAGAAAGGAACTT
 TCTTGATTAGAGATAGCTCGCATTGACTACTACTAACAATATCTGTTAAAACATCAG
 CTGGACCAACTAATCTTGAATCGAATACCAAGACGAAAATTCAGATTGGACTCTATCA
 TATGTGTCAAATCCAAGCTTAAACAATTTGACAGTGTGGTTTCTGATCGACTACTATG
 TTCAGATGTGCAAGGATAAGCGGACAGGTCCAGAAGCCCCCGAAACGGCACTGTTACC
 TTTATCTGACCAAACCGCTCTACACGTCAGCACCATCTCTGCAGCATCTGTAGGCTCA
 CCATTAACAAATGTACCGGTGCCATCTGGGGACTGCCTTTACCAACAAGACTAAAAGATT
 ACTTGGAAGAATAAAATCCAGGTATAAATGTTTCTCTTTTTTAAACATGTCTCACAT
 AGAGTATCTCCGAATGCAGCTATGTAAAAGAGAACCAAACTTGAGTGCTCTGGATAACT
 ATATGGAATGCTTTCTAAGAACAGCTGAAGCTAATCTAATTTAAATTTAACAGCTGAAG
 AGGTAGCTAGGTGTTAAAGTTCCTCCAGATACTTTTACCTGAGTGATGCTTCCCTTCT
 AAGGCTGACCAAGACCTGTTGATCCTTTTAGATTAATAAATAAATGTGCGCATGTAAGGC
 TGAAGTCGCGTTTTATCAGAATGCCTTGCCTTCTTAGGTTCTTTTCCATTATGTCAAAGG
 TCCAGGCTCCAGTAGGAGAGAAAGAACTCCTCATAGGAATACTGAAGAAGTGGGAAGGAA
 CCAAGCTGACACAGGCCCTCACTGCAATTTGATATGCCTGCTGATCAGAGTCTCTTGGCA
 TTTTATATTTTGCATTCTGATGTACCTAGGAGTTTTGTTAAACAGATGATGATGTGAGT
 ATTTATCCCATTTTATGCAATTAACCAAATCAACCAAAAAAAGTGACCATGAAGTCTGT
 ATTTGTCTTTTTACTACATGTAGGAACTCTCATGTGAATGAGTACTGTAGTAATCCATTC
 TATGGGAGCCTTATTTAGAAATATTTCAAACCTGGTGCAATGGAAAAGACTTTTCTCTTT
 TCCTTTAAAGCTAAAGACAAGAATATCATGCTATACAGGTGCAACTCAATCCCCGTTAAT
 AAAACCAATGTAGGTATAGGCATTCTACCCTTTGAAATAGCTGTGTCCCAACCTGTTGC
 CATTGATTTTTGGAAATGGCTTAGAAATATCCAAGTTGCTTGAATTGTCTAACCAT
 GGACATAAACAGTTGTCTCCCTTCTACTGTGTAGAATACTTTGACTTAATTTTCTCCAG
 ATACAGGGGGATACCTGCCTGTTTTTCAAAGTGTATTTTACTGCTGTTACTATTTGATT
 AGAATGTATTAATAAAAAAACCTGATTTCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAA

Restriction Sites: Please inquire

ACCN: NM_003877

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

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: 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]

Transcript Variant: This variant (1) differs in the 5' UTR, compared to variant 5. Variants 1-6 encode the same protein.