

## Product datasheet for **SC332952**

### SOCS2 (NM\_001270471) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SOCS2 (NM\_001270471) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SOCS2  
**Synonyms:** CIS2; Cish2; SOCS-2; SSI-2; SSI2; STAT12  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332952 representing NM\_001270471.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGACCCTGCGGTGCCTTGAGCCCTCCGGGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGGACCGCG  
GGGTGCGGCGGAGGAGCCATCCCCGAGGCGCGCTGCGCAAGGCCCTGCGGGAGCTCGGTGAGACA  
GGATGGTACTGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATTAAGAGGACCAGAAAGAACT  
TTCTTGATTAGAGATAGCTCGCATTGACTACCTACTAACAATATCTGTAAAACATCAGCTGGACCA  
ACTAATCTTGAATCGAATACCAAGACGGAATTCAGATTGGACTCTATCATATGTGTCAAATCCAAG  
CTTAAACAATTTGACAGTGTGGTTCATCTGATCGACTACTATGTTTCAGATGTGCAAGGATAAGCGGACA  
GGTCCAGAAGCCCCCGAACGGCACTGTTACACCTTTATCTGACCAAACCGCTCTACACGTGACGACCA  
TCTCTGCAGCATCTGTAGGCTCACCATTAAACAATGTACCGGTGCCATCTGGGGACTGCCTTTACCA  
ACAAGACTAAAAGATTACTTGAAGAATATAAATTCAGGTATAA
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001270471  
**Insert Size:** 597 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).



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**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\\_001270471.1](#)

**RefSeq Size:** 2541 bp

**RefSeq ORF:** 597 bp

**Locus ID:** 8835

**UniProt ID:** [O14508](#)

**Cytogenetics:** 12q22

**Protein Families:** Druggable Genome

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

**MW:** 22.2 kDa

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