

# **Product datasheet for RC233419**

## SOCS2 (NM 001270470) Human Tagged ORF Clone

#### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** SOCS2 (NM\_001270470) Human Tagged ORF Clone

Tag: Myc-DDK SOCS2 Symbol:

Synonyms: CIS2; Cish2; SOCS-2; SSI-2; SSI2; STATI2

**Mammalian Cell** Neomycin

Selection:

**ORF Nucleotide** 

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >RC233419 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACCCTGCGGTGCCTTGAGCCCTCCGGGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGGACCGCGG GGTCGGCGGAGGAGCCATCCCCGCAGGCGGCGCGTCTGGCGAAGGCCCTGCGGGAGCTCGGTCAGACAGG ATGGTACTGGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATTAAAAGAGGCACCAGAAGGAACTTTC TTGATTAGAGATAGCTCGCATTCAGACTACCTACTAACAATATCTGTTAAAAACATCAGCTGGACCAACTA ATCTTCGAATCGAATACCAAGACGGAAAATTCAGATTGGACTCTATCATATGTGTCAAATCCAAGCTTAA ACAATTTGACAGTGTGGTTCATCTGATCGACTATGTTCAGATGTGCAAGGATAAGCGGACAGGTCCA GAAGCCCCCGGAACGGCACTGTTCACCTTTATCTGACCAAACCGCTCTACACGTCAGCACCATCTCTGC AGCATCTCTGTAGGCTCACCATTAACAAATGTACCGGTGCCATCTGGGGACTGCCTTTACCAACAAGACT

AAAAGATTACTTGGAAGAATATAAATTCCAGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC233419 protein sequence **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MTLRCLEPSGNGGEGTRSQWGTAGSAEEPSPQAARLAKALRELGQTGWYWGSMTVNEAKEKLKEAPEGTF LIRDSSHSDYLLTISVKTSAGPTNLRIEYQDGKFRLDSIICVKSKLKQFDSVVHLIDYYVQMCKDKRTGP

EAPRNGTVHLYLTKPLYTSAPSLQHLCRLTINKCTGAIWGLPLPTRLKDYLEEYKFQV

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 



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### SOCS2 (NM\_001270470) Human Tagged ORF Clone - RC233419

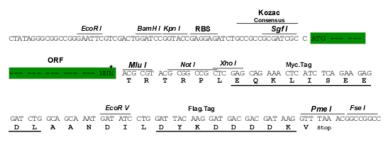
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6055">https://cdn.origene.com/chromatograms/mk6055</a> d04.zip

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001270470

ORF Size: 594 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:** 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 001270470.1, NP 001257399.1

RefSeq Size: 2888 bp RefSeq ORF: 597 bp Locus ID: 8835



UniProt ID: <u>O14508</u>

Cytogenetics: 12q22

**Protein Families:** Druggable Genome

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

MW: 22.2 kDa

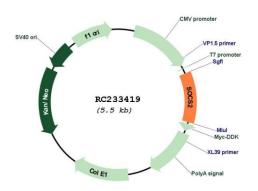
**Gene Summary:** This gene encodes a member of the suppressor of cytokine signaling (SOCS) family. SOCS

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-

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 horomone 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]

## **Product images:**



Circular map for RC233419