

Product datasheet for RC203163

SOCS2 (NM_003877) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SOCS2 (NM_003877) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SOCS2
Synonyms: CIS2; Cish2; SOCS-2; SSI-2; SSI2; STAT12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203163 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGACCCTGCGGTGCCTTGAGCCCTCCGGGAATGGCGGGGAAGGGACGCGGAGCCAGTGGGGACCCGGG
 GGTGGCGGAGGAGCCATCCCCGAGCGGCGCTCTGGCGAAGGCCCTGCGGGAGCTCGGTGAGACAGG
 ATGGTACTGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATTTAAAGAGGCACCAGAAGGAATTTT
 TTGATTAGAGATAGCTCGCATTGACTACCTACTAACAATATCTGTTAAACATCAGCTGGACCAACTA
 ATCTTCGAATCGAATACCAAGACGAAAATTCAGATTGGACTCTATCATATGTGTCAAATCCAAGCTTAA
 ACAATTTGACAGTGTGGTTCATCTGATCGACTACTATGTTGAGATGTGCAAGGATAAGCGGACAGGTCCA
 GAAGCCCCCGGAACGGCACTGTTACCTTTATCTGACCAAACCGCTCTACACGTGAGCACCATCTCTGC
 AGCATCTCTGTAGGCTCACCATTAACAATGTACCGGTGCCATCTGGGGACTGCCTTTACCAACAAGACT
 AAAAGATTACTTGAAGAATATAAATTCAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203163 protein sequence
 Red=Cloning site Green=Tags(s)

MTLRCLPSGNGGEGTRSQWGTAGSAEPPSPAARLAKALRELQGTGWYWSMTVNEAKEKLKEAPEGTF
 LIRDSSHSYLLTISVKTSAGPTNLRIEYQDGKFRDLSIICVKSCLKQFDSVVHLIDYYVQMCKDKRTGP
 EAPRNGTVHLYLTKPLYTSAPSLQHLRLTINKCTGAIWGLPLPTRLKDYLEEYKFQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

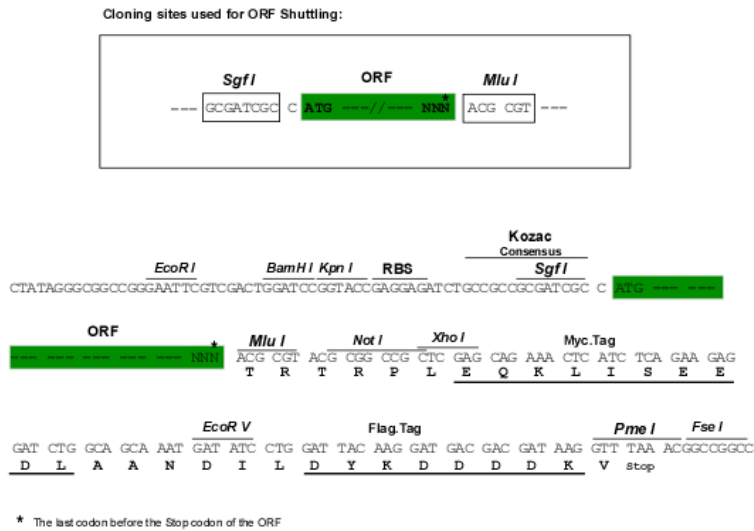


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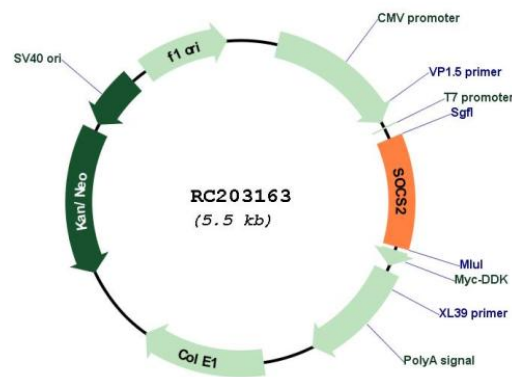
Chromatograms: https://cdn.origene.com/chromatograms/mk6055_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:

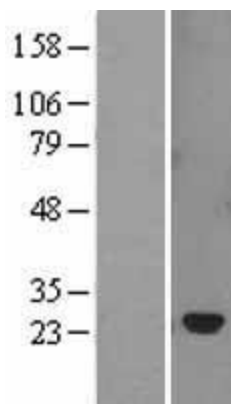


ACCN: NM_003877

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:	<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_003877.5
RefSeq Size:	2759 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
MW:	22.2 kDa
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>

Product images:

Western blot validation of overexpression lysate (Cat# [LY401278]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203163 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).