

## Product datasheet for MR226879

### Socs2 (NM\_001168656) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Socs2 (NM\_001168656) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Socs2  
**Synonyms:** 8030460M17; AI527257; AW108012; CIS2; Cish2; D130043N08Rik; hg; JAB; SOCS-2; SSI-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR226879 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCCTGCGGTGCCTGGAGCCCTCCGGGAATGGAGCGGACAGGACGCGGAGCCAGTGGGGACCCGGG  
 GGTTGCCGGAGGAACAGTCCCCGAGGCGCGCTCTGGCGAAAGCCCTGCGCGAGCTCAGTCAAACAGG  
 ATGGTACTGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATAAAAGAGGCTCCAGAAGGAACCTTC  
 TTGATTAGAGATAGTTTCGATTACGACTACCTACTAATATATCCGTTAAGACGTCAGCTGGACCGACTA  
 ACCTGCGGATTGAGTACCAAGATGGGAAATTCAGATTGGATTCTATCATATGTGTCAAGTCCAAGCTTAA  
 ACAGTTTGACAGTGTGGTTCATCTGATTGACTACTATGTCCAGATGTGCAAGGATAAACGGACAGGCCCA  
 GAAGCCCCACGGAATGGGACTGTTCACCTGTACCTGACCAAACCTCTGTATACATCAGCACCCACTCTGC  
 AGCATTCTGTGCGACTCGCCATTAACAAATGTACCCGGTACGATCTGGGGACTGCCTTTACCAACAAGACT  
 AAAAGATTACTTGAAGAATATAAATTCAGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226879 protein sequence  
 Red=Cloning site Green=Tags(s)

MTLRCLPSGNGADRTRSQWGTAGLPEEQSPEARLAKALRELSQTGWYWSMTVNEAKEKLKEAPEGTF  
 LIRDSSHSYLLTISVKTSAGPTNLRIEYQDGKFRDLSIICVKSKLKQFDSVVHLIDYVYQMKDKRTGP  
 EAPRNGTVHLYLTKPLYTSAPTLQHFCRLAINKCTGTIWGLPLPTRLKDYLEEYKFQV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001168656

**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\\_001168656.1](#), [NP\\_001162127.1](#)

**RefSeq Size:** 2153 bp

**RefSeq ORF:** 597 bp

**Locus ID:** 216233

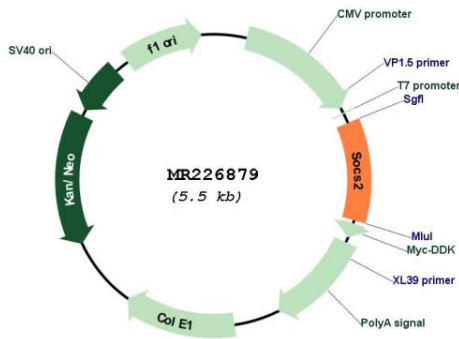
**UniProt ID:** [O35717](#)

Cytogenetics: 10 49.35 cM

MW: 22.4 kDa

Gene Summary: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS2 appears to be a negative regulator in the growth hormone/IGF1 signaling pathway. Probable substrate recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226879