

## Product datasheet for **MR226874**

### Socs2 (NM\_007706) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Socs2 (NM\_007706) 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:** >MR226874 representing NM\_007706  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCCTGCGGTGCCTGGAGCCCTCCGGGAATGGAGCGGACAGGACGCGGAGCCAGTGGGGACCCGG  
GGTTGCCGGAGGAACAGTCCCCGAGGCGCGCTCTGGCGAAAGCCCTGCGCGAGCTCAGTCAAACAGG  
ATGGTACTGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATTAAGAGGCTCCAGAAGGAATTTT  
TTGATTAGAGATAGTTTCGATTACGACTACCTACTAATATATCCGTTAAGACGTCAGCTGGACCGACTA  
ACCTGCGGATTGAGTACCAAGATGGGAAATTCAGATTGGATTCTATCATATGTGTCAAGTCCAAGCTTAA  
ACAGTTTGACAGTGTGGTTCATCTGATTGACTACTATGTCCAGATGTGCAAGGATAAACGGACAGGCCCA  
GAAGCCCCACGGAATGGGACTGTTCACCTGTACCTGACCAAACCTCTGTATACATCAGCACCCACTCTGC  
AGCATTCTGTCGACTCGCCATTAACAAATGTACCCGTACGATCTGGGACTGCCTTTACCAACAAGACT  
AAAAGATTACTTGAAGAATATAAATTCAGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226874 representing NM\_007706  
Red=Cloning site Green=Tags(s)

MTLRCLPSGNGADRTRSQWGTAGLPEEQSPEARLAKALRELSQTGWYWSMTVNEAKEKLKEAPEGTF  
LIRDSSHSYLLTISVKTSAGPTNLRIEYQDGKFRDLSIICVKSKLKQFDSVVHLIDYVYQMCKDKRTGP  
EAPRNGTVHLYLTKPLYTSAPTLQHFCRLAINKCTGTIWGLPLPTRLKDYLEEYKFQV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9081\\_d02.zip](https://cdn.origene.com/chromatograms/mm9081_d02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007706

**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\\_007706.4](#), [NP\\_031732.1](#)

**RefSeq Size:** 2222 bp

**RefSeq ORF:** 597 bp

**Locus ID:** 216233

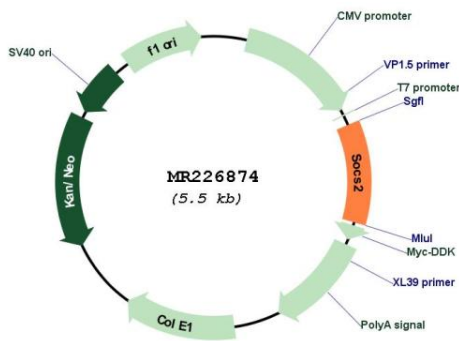
UniProt ID: [O35717](#)

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 MR226874