

Product datasheet for **MG226874**

Socs2 (NM_007706) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Socs2 (NM_007706) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Socs2
Synonyms: 8030460M17; AI527257; AW108012; CIS2; Cish2; D130043N08Rik; hg; JAB; SOCS-2; SSI-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226874 representing NM_007706
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCCTGCGGTGCCTGGAGCCCTCCGGGAATGGAGCGGACAGGACGCGGAGCCAGTGGGGACCCGCGG
 GGTTGCCGGAGGAACAGTCCCCGAGGCGCGCTCTGGCGAAAGCCCTGCGCGAGCTCAGTCAAACAGG
 ATGGTACTGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATTAAGAGGCTCCAGAAGGAACCTTC
 TTGATTAGAGATAGTTTCGATTCAGACTACCTACTAATATATCCGTTAAGACGTCAGCTGGACCGACTA
 ACCTGCGGATTGAGTACCAAGATGGGAAATTCAGATTGGATTCTATCATATGCGTCAAGTCCAAGCTTAA
 ACAGTTTGACAGTGTGGTTCATCTGATTGACTACTATGTCCAGATGTGCAAGGATAAACGGACAGGCCCA
 GAAGCCCCACGGAATGGGACTGTTCACCTGTACCTGACCAAACCTCTGTATACATCAGCACCCACTCTGC
 AGCATTCTGTCGACTCGCCATTAACAAATGTACCGGTACGATCTGGGGACTGCCTTTACCAACAAGACT
 AAAAGATTACTTGAAGAATATAAATCCAGGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226874 representing NM_007706
 Red=Cloning site Green=Tags(s)

MTLRCLPSGNGADRTRSQWGTAGLPEEQSPEAARLAKALRELSQTGWYWSMTVNEAKEKLKEAPEGTF
 LIRDSSHSDYLLTISVKTSAGPTNLRIEYQDGKFRLLDSIICVKSCLKQFDSVVHLIDYVYVQMCKDKRTGP
 EAPRNGTVHLYLTKPLYTSAPTLQHFCLAINKCTGTIWLPLPTRLKDYLEEYKFQV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

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

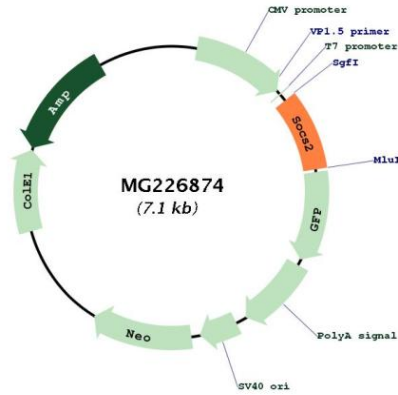
UniProt ID: [O35717](#)

Cytogenetics: 10 49.35 cM

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 MG226874