

Product datasheet for MR201978

Socs2 (NM_001168655) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Socs2 (NM_001168655) 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: >MR201978 representing NM_001168655
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCTGCGGTGCCTGGAGCCCTCCGGGAATGGAGCGGACAGGACGCGGAGCCAGTGGGGACCGCGG
GGTTGCCGGAGGAACAGTCCCCGAGGCGCGCTCTGGCGAAAGCCCTGCGCGAGCTCAGTCAAACAGG
ATGGTACTGGGAAGTATGACTGTTAATGAAGCCAAAGAGAAATAAAAGAGGCTCCAGAAGGAATTTT
TTGATTAGAGATAGTTTCGATTCAGACTACCTACTAATATATCCGTTAAGACGTCAGCTGGACCGACTA
ACCTGCGGATTGAGTACCAAGATGGGAAATTCAGATTGGATTCTATCATATGTGTCAAGTCCAAGCTTAA
ACAGTTTGACAGTGTGGTTCATCTGATTGACTACTATGTCCAGATGTGCAAGGATAAACGGACAGGCCCA
GAAGCCCCACGGAATGGGACTGTTCACCTGTACCTGACCAAACCTCTGTATACATCAGCACCCACTCTGC
AGCATTCTGTGCGACTCGCCATTAACAAATGTACCGGTACGATCTGGGACTGCCTTTACCAACAAGACT
AAAAGATTACTTGAAGAATATAAATTCAGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201978 representing NM_001168655
Red=Cloning site Green=Tags(s)

MTLRCLPSGNGADRTRSQWGTAGLPEEQSPEARLAKALRELSQTGWYWSMTVNEAKEKLKEAPEGTF
LIRDSSHSYLLTISVKTSAGPTNLRIEYQDGKFRDLSIICVKSKLKQFDSVVHLIDYVYQMKDKRTGP
EAPRNGTVHLYLTKPLYTSAPTLQHFCRLAINKCTGTIWGLPLPTRLKDYLEEYKFQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001168655

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_001168655.1](#), [NP_001162126.1](#)

RefSeq Size: 2195 bp

RefSeq ORF: 597 bp

Locus ID: 216233

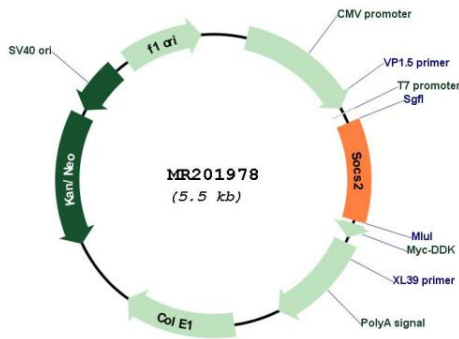
UniProt ID: [O35717](#)

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 MR201978