

Product datasheet for MR228539

Socs1 (NM_001271603) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Socs1 (NM_001271603) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Socs1
Synonyms:	Cish1; Cish7; JAB; SOCS-1; SSI-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228539 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGTAGCACGCAACCAGGTGGCAGCCGACAATGCGATCTCCCCGGCAGCAGAGCCCCGACGGCGGTACAGCCCTCCTCGTCCTCGTCTTCGTCCTCGCCAGCGGCCCGTGCCTCCCGGCCCTGCCGCGGTCCAGCCCCAGCCCCGGCGACTCACTTCCGCACCTTCGCTCCCACTCCGATTACCGGCGCATCACGCGACACGCGCTCCTGGACGCTGCGGCTTCTATTGGGGACCCCTGAGCGTGCACGGGCGCACGAGCGGTGCGTGCCGAGCCGTGGGCACCTTCTGGTGCCGACAGTCGCCAACGGAAGTCTTTCGCGCTCAGCGTGAAGATGGCTTCGGGCCACGAGCATCCGCGTGCCTTCCAGGCCGCGCTTCCACTTGGACGGCAGCCGCGAGACCTTCGACTGCCTTTTCGAGCTGCTGGAGCACTACGTGGCGGCGCCGCGCCGATGTTGGGGCCCCGCTGCGCCAGCGCCGCGTGCAGGAGCTGTGTGCCAGCGCATCGTGGCCCGCTGGTCCGCGAGAACCTGGCGCGCATCCCTCTTAACCCGGTACTCCGTGACTACCTGAGTTCCTTCCCTTCAGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR228539 protein sequence
Red=Cloning site Green=Tags(s)

MVARNQVAADNAISPAAEPRRRSEPSSSSSSSSPAAPVRPRPCPAVPAPAPGDTHFRTFRSHSDYRRITR
 TSALLDACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFALSVKMASGPTSIRVHFQAGRFLDGLD
 SRETFDCLFELLEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVAAVGRENLARIPLNPVLRDYLSSFPF
 QI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271603

ORF Size: 639 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_001271603.1](#), [NP_001258532.1](#)

RefSeq Size: 1340 bp

RefSeq ORF: 639 bp

Locus ID: 12703

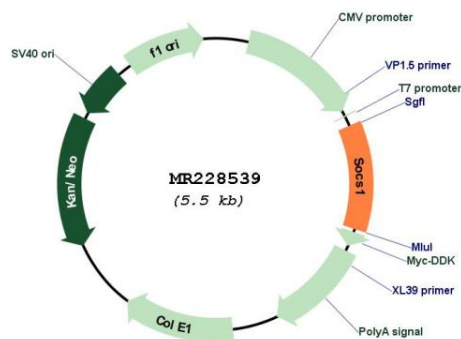
UniProt ID: [O35716](#)

Cytogenetics: 16 5.81 cM

MW: 23.7 kDa

Gene Summary: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS1 is involved in negative regulation of cytokines that signal through the JAK/STAT3 pathway. Through binding to JAKs, inhibits their kinase activity. In vitro, also suppresses Tec protein-tyrosine activity (By similarity). Appears to be a major regulator of signaling by interleukin 6 (IL6) and leukemia inhibitory factor (LIF). Regulates interferon-gamma mediated sensory neuron survival. Probable substrate recognition component of an ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Seems to recognize JAK2 (By similarity). SOCS1 appears to be a negative regulator in IGF1R signaling pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228539