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Product datasheet for MR225636

Socs3 (NM_007707) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Socs3 (NM_007707) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Socs3
Synonyms:	Cis3; Cish3; EF-10; Ef10; SSI-3; Ssi3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR225636 representing NM_007707
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCACCCACAGCAAGTTTCCCGCCGCCGGGATGAGCCGCCCCCTGGACACCAGCCTGCGCCTCAAGA
CCTTCAGCTCCAAAAGCGAGTACCAGCTGGTGGTGAACGCCGTGCGCAAGCTGCAGGAGAGCGGATTCTA
CTGGAGCGCCGTGACCGGCGGCGAGGCGAACCTGCTGCTCAGCGCCGAGCCCGCGGGCACCTTTCTTATC
CGCGACAGCTCGGACCAGCGCCACTTCTTCACGTTGAGCGTCAAGACCCAGTCGGGGACCAAGAACCTAC
GCATCCAGTGTGAGGGGGGCAGCTTTTCGCTGCAGAGTGACCCCCGAAGCACGCAGCCAGTTCCCCGCTT
CGACTGTGTACTCAAGCTGGTGCACCACTACATGCCGCCTCCAGGGACCCCCTCCTTTTCTTTGCCACCC
ACGGAACCCTCGTCCGAAGTTCCGGAGCAGCCACCTGCCCAGGCACTCCCCGGGAGTACCCCCAAGAGAG
CTTACTACATCTATTCTGGGGGCGAGAAGATTCCGCTGGTACTGAGCCGACCTCTCTCCTCCAACGTGGC
CACCCTCCAGCATCTTTGTCGGAAGACTGTCAACGGCCACCTGGACTCCTATGAGAAAGTGACCCAGCTG
CCTGGACCCATTCGGGAGTTCCTGGATCAGTATGATGCTCCACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR225636 representing NM_007707
Red=Cloning site Green=Tags(s)

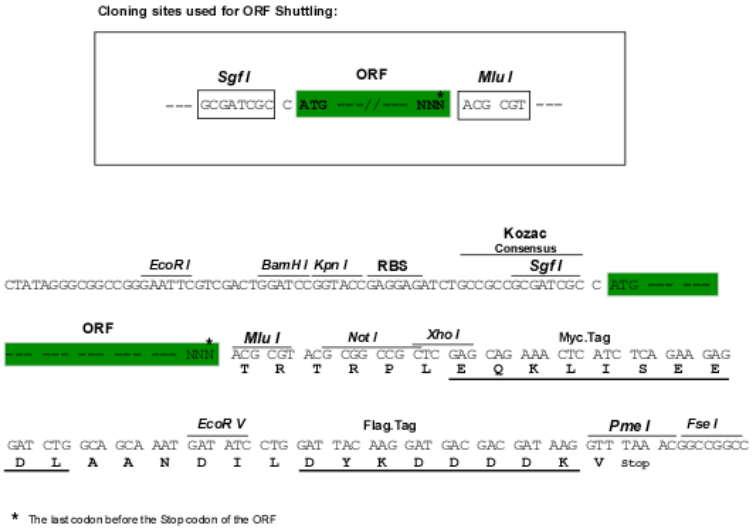
MVTHSKFPAAGMSRPLDTSLRLKTFSSKSEYQLVVNAVRKLQESGFYWSAVTGGEANLLLSAEPAGTFLI
RDSSDQRHFFTLSVKTQSGTKNLRIQCEGGSFSLQSDPRSTQPVPRFDCVLKLVHHYMPPPGTPSFSLPP
TEPSSEVPEQPPAQALPGSTPKRAYYIYSGGEKIPLVLSRPLSSNVATLQHLCRKTVNGHLDSYEKVTQL
PGPIREFLDQYDAPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007707

ORF Size: 675 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_007707.3, NP_031733.1

RefSeq Size: 2742 bp

RefSeq ORF: 678 bp

Locus ID: 12702

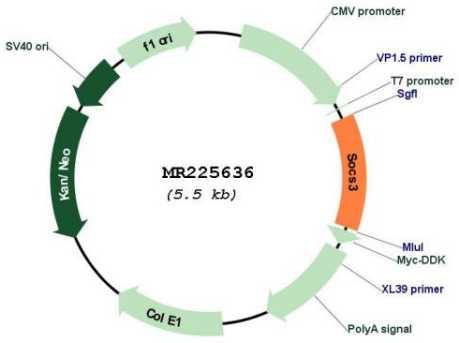
UniProt ID: O35718

Cytogenetics: 11 E2

MW: 25.2 kDa

Gene Summary: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS3 is involved in negative regulation of cytokines that signal through the JAK/STAT pathway. Inhibits cytokine signal transduction by binding to tyrosine kinase receptors including gp130, LIF, erythropoietin, insulin, IL12, GCSF and leptin receptors. Binding to JAK2 inhibits its kinase activity. Suppresses fetal liver erythropoiesis. Regulates onset and maintenance of allergic responses mediated by T-helper type 2 cells. Regulates IL-6 signaling in vivo. Probable substrate-recognition component of a SCF-like ECS (Elongin BC-CUL2/5-SOCS-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (By similarity). Seems to recognize IL6ST.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225636