

Product datasheet for **MR208589**

Socs5 (NM_019654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Socs5 (NM_019654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Socs5
Synonyms:	1810018L08Rik; Cish5; mKIAA0671
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208589 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATAAAGTGGGAAAATGTGGAACAACTTAAAATACAGATGCCAGAATCTCTTCAGCCACGAGGGAG
 GAAGCCGTAATGAGAACGTGGAGATGAACCCCAACAGATGTCCGTCTGTCAAAGAGAAAAGCATCAGTCT
 GGGAGAGGCAGCTCCCCAGCAAGAGAGCAGTCCCTTAAGAGAAAATGTTGCCTTACAGCTGGGACTGAGC
 CCTTCCAAGACCTTTTCCAGGCGGAACCAAACTGTGCCGAGAGATCCCTCAAGTGGTTGAAATCAGCA
 TCGAGAAAAGACAGTGACTCGGGTCCACCCAGGAACGAGGCTTGACGGAGAGACTCCTACTCGCGGCA
 CGCCCCGTGGGGAGAAAGAAGAAACATTCTGTCCACAAGACCCAGAGTTTATTGGATACCGAGAAA
 AAGTTTGGTAGAACTCGAAGCGGCTTCAGAGGCGAGAGCGGCGTATGGAGTCACTCCATGCAGGACA
 TGGACAGCGTTTCTAGCCGCGCGGTGGGAGCCGCTCCCTGAGGCAGAGGCTCCAGGACACGGTGGGTTT
 GTGTTTTCCCATGAGAACTTACAGCAAGCAGTCAAAGCCACTCTTTTCCAATAAAAGAAAATACATCTT
 TCTGAATTAATGCTGGAGAAATGCCCTTTCTCTGCTGGCTCGGATTTAGCACAAAAGTGGCATTGATTA
 AACAGCATACCGCCCTGTGAGCCACACTCAACATTTTTTATACATTTGATCCATCACTGGTGTCTAC
 AGAAGATGAAGAAGATAGGCTTCGCGAGAGAAGACGGCTTAGTATCGAAGAAGGGGTGGATCCCCCTCCC
 AACGCACAAAATACACACCTTTGAAGCTACTGCACAGGTCAACCCATTGTATAAGCTGGGACCAAAGTTAG
 CTCCTGGGATGACAGAGATAAGTGGAGATGGTTCTGCAATTCACAAAAGAAATTGTACTCAGAAGAGGA
 TTCAACCAACCTATGCTGCAGTACGGAGGCAGAAGCAGCGCCAGGTGTCCGGGACAGCCACGCGCAC
 GTTAGCAGACAGGGAGCTTGGAAAGTTCATACGCAGATCGATTACATAACTGCCTCGTCCAGATTGCG
 TTCAGATCACAGGGAATCCCTGTTACTGGGGCGTATGGACCGATACGAGGCCGAAAGCCCTTCTAGAAGG
 GAAACCGGAAGGCACGTTCTTGCTCAGGGACTCTGCACAGGAGGACTACCTCTTCTGTGAGCTTCCGC
 CGCTACAACAGGTCTCTGCACGCCCGGATCGAGCAGTGGAAACCACAACCTCAGCTTCGATGCCCATGACC
 CCTGCGTGTTCCTCCTCCACTGTACGGGGCTTCTCGAACACTATAAAGACCCAGCTTTGCATGTT
 TTTTGAACCGTTGCTAACGATATCACTGAATAGAACTTTCCCTTTCAGCCTGCAGTATATCTGCCGCGCA
 GTGATCTGCAGATGCACTACGTATGATGGGATTGACGGGCTCCCCTACCGTCGATGTTACAGGATTTTT
 TAAAGAGTATCATTATAAACAAAAGTTAGGGTTCGCTGGTTAGAACGAGAACCAGTCAAAGCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208589 protein sequence
 Red=Cloning site Green=Tags(s)

MDKVGKMWNNLKYRCQNLFSHEGGRNENVEMNPNRCPVKEKSIISLGEAAPQEQESSPLRENVALQLGLS
 PSKTFSTRNQNAEIPQVVEISIEKSDSGATPGTRLARRDSYSRHAPWGGKKKHSCSTKTQSSLDTEK
 KFGRTSGLQRRERRYGVSSMQDMSVSSRAVGSRSRQRLQDTVGLCFPMRTYSKQSKPLFSNKRKIHL
 SELMLEKCPFPAGSDLAQKWHLIKQHTAPVSPHSTFFDTFDPSTLSTEDDEEDRLRERRRLSIEEGVDP
 NAQIHTFEATAQVNPLYKLGPKLAPGMTEISGDGSAIPQTNCDSEEDSTLCLQSRQKQRQVSGD
 VSRQGAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMRYEAEALLEGKPEGTFLLRDSAQEDYLFVSVFR
 RYNRSLHARIEQWNHNSFDAHDPVHSTVTGLLEHYKDPSSCMFFPELLTISLNRTFPFSLQYICRA
 VICRCTTYDGIDGLPLPSMLQDFLKEYHYKQKVRVRLEREPVKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019654

ORF Size: 1611 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_019654.2](#), [NP_062628.2](#)

RefSeq Size: 4460 bp

RefSeq ORF: 1611 bp

Locus ID: 56468

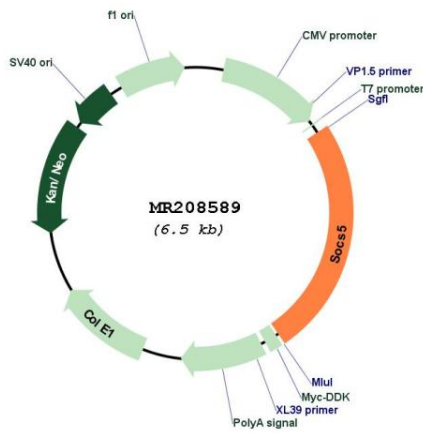
UniProt ID: [O54928](#)

Cytogenetics: 17 E4

MW: 61.1 kDa

Gene Summary: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. May be a 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. Inhibits for instance EGF signaling by mediating the degradation of the EGF receptor/EGFR. Involved in the regulation of T-helper cell differentiation by inhibiting of the IL4 signaling pathway which promotes differentiation into the Th2 phenotype. Can also partially inhibit IL6 and LIF signaling.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208589