

## Product datasheet for **RG206267**

### SOCS5 (NM\_144949) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOCS5 (NM_144949) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SOCS5
Synonyms:	CIS6; Cish5; CISH6; SOCS-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206267 representing NM\_144949  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATAAAGTGGAAAAATGTGGAATAACTTCAAATACAGGTGTGAGAATCTCTTCGGTCATGAGGGAG  
 GAAGCCGTAGTAAAAATGTGGACATGAACTCCAACAGATGTTTGTCTGTCAAAGAGAAAAACATCAGCAT  
 AGGAGACTCAACTCCTCAGCAACAAAGCAGTCCCTTAAGAGAAAAATTGCCTTACAACCTGGGATTAAGC  
 CCTTCGAAGAATTCTTCAAGGAGAAATCAAATTTGTCACAGAAATCCCTCAAATTTGTTGAAATAAGCA  
 TCGAAAAGGATAATGATTCTTGTGTACGCCAGGAACAAGACTTGCACGAAGAGATTCTACTCTCGACA  
 TGCTCCATGGGGTGGGAAGAAAAACATTCCTGTTCTACAAGACCCAGAGTTCATTGGATGCTGATAAA  
 AAGTTTGGTAGAACTCGAAGTGGACTTCAAAGGAGAGAGAGGCGCTACGGCGTAAGTTCTGTACACGACA  
 TGGACAGTGTTCAGCAGAAGTGTAGGAAGTCGCTCTCTAAGACAGAGTTGCAGGATACTGTGGGCTT  
 GTGTTTTCCCATGAGAATTACAGCAAGCAGTCAAAGCCTCTCTTTCCAATAAAAGAAAAATCCATCTC  
 TCTGAATTAATGCTTGAGAAATGCCCTTTCTCTGCTGGCTCAGATTTAGCCCAAAAATGGCATTGATTA  
 AACAGCATACAGCTCCTGTGAGCCACATTCAACATTTTTTATACATTTGATCCATCTTTGGTTTCTAC  
 AGAAGATGAAGAAGATAGGCTTAGAGAGAGAAGGCGGCTTAGTATTGAAGAAGGGTTGATCCCCCTCCC  
 AATGCACAAATACATACATTTGAAGTACTGCACAGGTTAATCCATTATATAAATGGGACCAAAATTAG  
 CTCCTGGAATGACTGAAATAAGTGGGACAGTTTCTGCAATTCACAAGCTAATTGTGACTCGGAAGAGGA  
 TACAACCACCTGTGTTTGCAGTACGGAGGCAGAAGCAGCGTCAGATATCTGGAGACAGCCATACCCAT  
 GTTAGCAGACAGGGAGCTTGGAAAGTCCACACACAGATTGATTACATACACTGCCTCGTGCCTGATTTGC  
 TTCAAATTACAGGGAATCCCTGTTACTGGGGAGTGTGACCGTTATGAAGCAGAAGCCCTCTCGAAGG  
 GAAACCTGAAGGCACGTTTTTGTCTCAGGACTCTGCGCAAGAGGACTACCTCTTCTCTGTGAGCTTCCGC  
 CGCTACAACAGATCCCTGCATGCCGAATTGAGCAGTGAATCACAACCTTATGTTTCGACGCCCATGACC  
 CGTGTGATTTCACTCCTCCACTGTAACGGGACTTTTAGAACATTATAAAGATCCCAGTTCTGTGCATGTT  
 TTTTGAACCATTGCTTACTATATCACTAAATATGACTTCCCTTTTAGCCTGCAGTATATCTGTGCGCGC  
 GTAATCTGCAGGTGCACTACGTATGATGGAATTGATGGGCTCCCTCTACCTCAATGTTACAGGATTTT  
 TAAAGAGTATCATTATAAACAAAAAGTTAGAGTTCGCTGGTTGGAACGAGAACCAGTCAAGGCAAAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206267 representing NM\_144949  
 Red=Cloning site Green=Tags(s)

MDKVGKMWNNFKYRCQNLFGHEGGSRSENVDMNSNRCLSVKEKNI SIGDSTPQQQSSPLRENIALQLGLS  
 PSKNSSRRNQNCATEIPQIVEISIEKDNDSCVTPGTRLARRDSYSRHAPWGKKKHSCSTKTQSSLDADK  
 KFGRTSGLQRRRERYGVSSVHDMDSVSSRTVGSRLRQRLQDTVGLCFPMRTYSKQSKPLFSNKRKIHL  
 SELMLEKCPFPAGSDLAQKWHLIKQHTAPVSPHSTFFDTPSLVSTEDEEDRLRERRRLSIEEGVDPPP  
 NAQIHTFEATAQVNPLYKLGPKLAPGMTEISGDSSAIPQANCDSEEDTTTLCQSRQKQRQISGDSHTH  
 VSRQGAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMRYEAEALLEGKPEGTFLLRDSAQEDYLFVSVFR  
 RYNRSLHARIEQWNHNSFDAHDPCVFHSSVTGLLEHYKDPSSCMFFPELLTISLNMTPFSLQYICRA  
 VICRCTTYDGIDGLPLSMLQDFLKEYHYKQKVRVRLEREPVKAK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_144949

**ORF Size:** 1608 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_144949.2](#), [NP\\_659198.1](#)

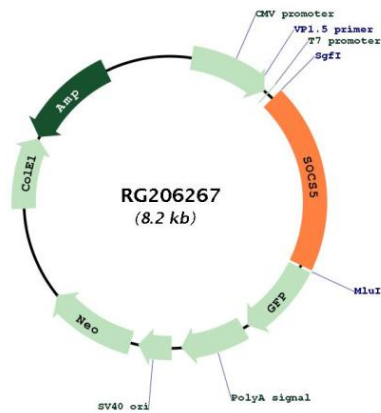
**RefSeq Size:** 4510 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 9655

**UniProt ID:** [O75159](#)  
**Cytogenetics:** 2p21  
**Domains:** SH2, SOCS  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Jak-STAT signaling pathway  
**Gene Summary:** The protein encoded by this gene contains a SH2 domain and a SOCS BOX domain. The protein thus belongs to the suppressor of cytokine signaling (SOCS) family, also known as STAT-induced STAT inhibitor (SSI) protein family. SOCS family members are known to be cytokine-inducible negative regulators of cytokine signaling. The specific function of this protein has not yet been determined. Two alternatively spliced transcript variants encoding an identical protein have been reported. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG206267