

## Product datasheet for **SC124288**

### SOCS5 (NM\_144949) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOCS5 (NM_144949) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOCS5
Synonyms:	CIS6; Cish5; CISH6; SOCS-5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_144949, the custom clone sequence may differ by one or more nucleotides

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ATGGATAAAGTGGGAAAAATGTGGAATAACTTCAAATACAGGTGTCAGAATCTCTTCGGTCATGAGGGAG
GAAGCCGTAGTGAAAAATGTGGACATGAACTCCAACAGATGTTTGTCTGTCAAAGAGAAAAACATCAGCAT
AGGAGACTCAACTCCTCAGCAACAAAGCAGTCCCTTAAGAGAAAAATTGCCTTACAACCTGGGATTAAGC
CCTTCGAAGAATTCTTCAAGGAGAAATCAAATTTGTGCCACAGAAATCCCTCAAATGTTGAAATAAGCA
TCGAAAAGGATAATGATTCTGTGTTACCCAGGAACAAGACTTGCACGAAGAGATTCTACTCTCGACA
TGCTCCATGGGGTGGGAAGAAAAACATTCCTGTTCTACAAGACCCAGAGTTCATTGGATGCTGATAAA
AAGTTTGGTAGAACTCGAAGTGGACTTCAAAGGAGAGAGAGGCGCTACGGCGTAAGTTCTGTACACGACA
TGGACAGTGTTCAGCAGAACTGTAGGAAGTCGCTCTCTAAGACAGAGGTTGCAGGATACTGTGGGCTT
GTGTTTTCCCATGAGAACTTACAGCAAGCAGTCAAAGCCTCTCTTTTCCAATAAAAGAAAAATCCATCTC
TCTGAATTAATGCTTGAGAAATGCCCTTTTCTGTGGCTCAGATTTAGCCAAAAATGGCATTGATTA
AACAGCATAACAGCTCCTGTGAGCCACATTC AACATTTTTTGTACATTTGATCCATCTTTGGTTTCTAC
AGAAGATGAAGAAGATAGGCTTAGAGAGAGAAGGCGGCTTAGTATTGAAGAAGGGGTTGATCCCCCTCCC
AATGCACAAATACATAACATTTGAAGCTACTGCACAGGTTAATCCATTATATAAACTGGGACCAAAATTAG
CTCCTGGAATGACTGAAATAAGTGGGACAGTTCTGCAATTCACAAGCTAATTGTGACTCGGAAGAGGA
TACAACCCACCTGTGTTGTCAGTCACGGAGGCAGAAGCAGCGTCAGATATCTGGAGACAGCCATACCCAT
GTTAGCAGACAGGGAGCTTGGAAAGTCCACACACAGATTGATTACATACTGCCTCGTGCCTGATTTGC
TTCAAATTACAGGAATCCCTGTTACTGGGAGTGATGGACCGTTATGAAGCAGAAGCCCTTCTCGAAGG
GAAACCTGAAGGCACGTTTTTGTCTCAGGACTCTGCGCAAGAGGACTACCTCTTCTGTGAGCTTCCGC
CGTCAACAGATCCCTGCATGCCGAATTGAGCAGTGGAAATCACAACCTTAGTTTCGAGCCCATGACC
CGTGTGATTTCACTCCCTCACTGTAACGGGACTTTTAGAACATTATAAAGATCCCAAGTTGCTGCATGTT
TTTTGAACCATTGCTTACTATATCACTAAATAGGACTTTCCCTTTTAGCCTGCAGTATATCTGTCCGCGG
GTAATCTGCAGGTGCACTACGTATGATGGAATTGATGGGCTCCCTCTACCCCTCAATGTTACAGGATTTTT
TAAAGAGTATCATTATAAACAAAAAGTTAGAGTTCGCTGGTTGGAACGAGAACCAGTCAAGGCAAAGTA
A
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_144949 unedited

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GGTGTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCGGGG
CATCCGGCGGAGCTGGGGTCCCCGGGCTCCGTCCGGAGGAAGCGACGCTGCGCTCGCTGG
GCAGTCGGAGGGGACGGGACGCACCGGAGGGCAGGCGGACTCGCCCTGTCCGGTACTGCG
CCGTCCGGGCCGCTCCTGCCTGGCCGCAAGTGCCTGGATGAGGCCGCCCGCGCGCCCC
AAACGATTTTATAATCAATGGATAAAGTGGGAAAAATGTGGAATAACTTCAAATACAGGT
GTCAGAATCTCTCGGTATGAGGGAGGAAGCCGTAGTAAAATGTGGACATGAACTCCA
ACAGATGTTTGTCTGTCAAAGAGAAAAACATCAGCATAGGAGACTCAACTCCTCAGCAAC
AAAGCAGTCCCTTAAGAGAAAAATATTGCCCTTACAACCTGGGATTAAGCCCTTCGAAGAATT
CTTCAAGGAGAAATCAAATTTGTGCCACAGAAATCCCTCAAATGTTGAAATAAGCATCG
AAAAGGATAATGATTCTGTGTTACCCAGGAACAAGACTTGCACGAAGAGATTCTACT
CTCGACATGCTCCATGGGGTGGGAAGAAAAACATTCCTGTTCTACAAGACCCAGAGTT
CATTGGATGCTGATAAAAAGTTTGGTAGAACTCGAAGTGGACTTCAAAGGAGAGAGAGGC
GCTACGGCGTAAGTTCTGTACACGACATGGACAGTGTTCAGCAGAACTGTAGGAAGTC
GCTCTCTAGAACAGAGTGCAGGATACTGTGGGCTTGTGTTTTCCCATGAGAACTTTACAG
CAGCAGTCAAAGCCTCTCTTTTCCATAAAAAGAAAAATTCATCTCTCTGAATAATGCTTG
AGAAATGCCTTTTCTGCTGGCTCAGATTNAGCCCAAATG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_144949 unedited ACTATGGAACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCATGCTG GTGATTTTTCTTTTTAAATGTAAAGCCACTAATATTTAAAGACAAAAATTTAAACCAA AATTGCATATTAATATTACACAACTGAAACATGTGACTTTTAGCACAGTGATACAT GCTTACATAAACTCAAACACATTTAAAACAATTTCCATTTAACATATGAAAGTTTGAAA TACATAAAAGCATTAACTTTCTATAAACTACAGTTAGAACATCAATTTGCTACAAGC ATATAAAACATCAAGTGCTTTCTGGAGTTTCAAGTTTCTCTCTAAAACACAATCTTG CTCACATATATAGTCCTTTTCCAATAATCAGTATGAACTTTTCTTTTCTCAAGAGGTTT ATTTTCCAGGTACATTATAAGCTCAAGAAAAAGACCCAACAATTAGGCAATATAATTAT GTCATAACAACCTAATTGCACATAATGCTTTAAAGTAGGTTTGGATGAAGTTCTCAAACA CTTTGGTATATGATCTTCAGGGACTTTAATTAGAAACAACAGAAATTATAAGTCCCTTCA ATCCCCATTTTGCTTTAAAGGGACAAGTCTTTGGTTAAAGTTCTACATTTTGGGCATTT ATTTTTAATTAGATGGTCCCAACAATAAATGTACTGATCTATACAAATTCACAGACTT ATTTACCTGCTTCTGAGCAGTGGGAGTTACAGAACTCATTACTATATATGTCATGGGAAG TTTCAATCTTCATTTATAGCAGAGAATCAAAGGTTATTACTTCTCTGTCAGTTTCTGTTA TACCTAAGTGTAGTATTTGAGTAACTACGATCTGTTCCAGTTTATATTATGACTGAT AGATGNGAGCATTAAATTAAGTAGCTATTCTGATAGTCATATAGACTGTCATAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_144949
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_144949.2</a></u> , <u><a href="#">NP_659198.1</a></u>
<b>RefSeq Size:</b>	4510 bp
<b>RefSeq ORF:</b>	1611 bp
<b>Locus ID:</b>	9655
<b>UniProt ID:</b>	<u><a href="#">O75159</a></u>
<b>Cytogenetics:</b>	2p21
<b>Domains:</b>	SH2, SOCS
<b>Protein Families:</b>	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]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants encode the same protein.