

Product datasheet for **SC124420**

SOCS6 (NM_004232) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOCS6 (NM_004232) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOCS6
Synonyms:	CIS-4; CIS4; HSPC060; SOCS-4; SOCS-6; SOCS4; SSI4; STAI4; STATI4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124420 sequence for NM_004232 edited (data generated by NextGen Sequencing)

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ATGAAGAAAATTAGTCTTAAAACCTTACGGAAATCTTTAACTTGAATAAAAAGTAAAGAA
GAAACTGATTTTCATGGTAGTACAACAACCATCGCTAGCCAGTGACTTTGGAAAAGATGAT
TCCTTATTTGGTAGCTGCTATGGTAAAGATATGGCCAGCTGCGATATCAACGGTGAAGAT
GAAAAAGGCGGAAAAACAGATCAAAAAGCGAGAGCCTGATGGGTACGCTAAAAAGGCGG
CTTTCTGCAAAACAGAAGTCAAAAAGGCAAGGCGGGCACACCCTCTGGGAGCTCTGCCGAC
GAGGACACCTTCTCCTCCTCAGCACCCATAGTCTTTAAAGACGTGAGAGCTCAGAGG
CCGATAAGGTCCACGTCGCTCCGAGCCATCACTACAGTCCCGCGCCGTGGCCTCTGCGG
CCCACAACTCCGAGGAGACCTGCATCAAGATGGAGGTGAGAGTCAAGGCCTTGGTTTAC
TCTTCCAGCCGAGTCCAGCCCTGAATGGCGTCCGGAAGGATTTCCACGACCTCCAGTCT
GAGACCAGTGCCAGGAGCAAGCCAATCACTGAAGAGCTCGGCTTCTCATAATGGAGAC
CTGCATCTTACCTGGATGAACATGTGCCTGTGCTTATTGGACTTATGCCTCAGGACTAC
ATTCAGTATACTGTCCCTTAGATGAGGGGATGTATCCTTTGGAAGGATCACGGAGCTAT
TGCTGGACAGCTCTTCTCCCATGGAAGTCTCTGCGGTTCTCCTCAAGTGGGAGGGCGC
GCTTTCCCGAGGATGAGAGTCAGGTAGACCAGGACCTAGTTGTGCGCCCAGAGATCTTC
GTGGATCAGTCCGTGAATGGCTTGTGATTGGCACCCAGGAGTCAATGTCAGAGCCCCG
AGAGCGGGTCCAGATGATGTCCCTCCACTCTACCATTGTACCTCCAATGCAGAATAAT
CAAATCCAAGGAACCTCAGTGGACTCACTGGCACAGAAGCCACGTGGCTGAAAGTATG
CGCTGTCAATTTGAATTTTATCCGAACTCTGCTCCTGGGGTTGCAAGAGTTTATGACTCA
GTGCAAAGTAGTGGTCCCATGGTGTGACAAGCCTTACAGAGGAGCTGAAAAAATTGCA
AAGCAAGGATGGTACTGGGGACCAATCACACGTTGGGAGGCAGAAGGGAAGCTAGCAAAC
GTGCCAGATGGTTCTTTTCTTGTTCGGGACAGTCTGACGACCGTTACCTTTTAAAGCTTG
AGCTTTCGCTCCCATGGTAAAACACTTCACTAGAAATTGAGCACTCAAATGGTAGGTTT
AGCTTTTATGAACAGCCAGATGTGGAAGGACATACGTCCATAGTTGATCTAATTGAGCAT
TCAATCAGGGACTCTGAAAATGGAGCTTTTGTATTCAAGGTCTCGGCTGCCTGGATCT
GCAACTTACCCCGTCAGACTGACCAACCCAGTGTCCCGTTTATGCAGGTGCGCTCGTTG
CAGTACCTGTGCTGTTTGTATACGTCAGTATACCAGAATAGACTTAATTCAGAAAAGT
CCTTTGCCAAACAAAATGAAGGATTATTTACAGGAGAAGCACTACTGA
    
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Clone variation with respect to NM_004232.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004232 unedited
GAATAGGTAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCGGCGCTGGGC
GAGGAAGCGGAGCCGGCCGCTCCGAAAAGGCTCCAAGGTTAAATGAAGCAGGAAAA
ATACATAGATGCAGCCTTGCAGCCTCTCACGATGTTTGGGATAATATCCAGATAGAAA
TATTGATCCCTTGGATTAGGTAAGTACTAGTCATAATGAAGAAAATTAGTCTTAAAACCTTAC
GGAAATCTTTTAACTTGAATAAAAAGTAAAGAAGAACTGATTTTCATGGTAGTACAACAAC
CATCGCTAGCCAGTGACTTTGAAAAGATGATTCTTATTTGGTAGCTGCTATGGTAAAG
ATATGGCCAGCTGCGATATCAACGGTGAAGATGAAAAGGCGGAAAAACAGATCAAAAA
GCGAGAGCCTGATGGGTACGCTAAAAGGCGGCTTTCTGCAAAACAGAAGTAAAAGGCA
AGGCGGGCACACCCTCTGGGAGCTCTGCCGACGAGGACACCTTCTCCTNCTCCTCAGCAC
CCATAGTCTTTAAAGACGTGAGAGCTCAGAGGCCGATAAGGTCCACGTCGCTCCGCAGAC
ATCACTACAGTCCCGCGCGTGGCTCTGCGGCCACAACTCCGAGGAGACCTGCATCA
AGATGGAGGTGAGAGTCAAGGCCCTTGTCACTTTCAGCCGAGTCCAGCCCTGAATG
GGGACTCGGAAGGATTNACGACCTCCAGTCTGAGACCAGTGCCCGGAGCAAGCCAATN
CACTTGAGAGCTCGGCTTCTCATTATGGAGACCTGCATCTTACCTGGATGACATGTGCT
GTCGTTATTGGACTATGCCTTAAGACTACATTTATATACTGTGCCTTAGATGAAGGGAGG
ATCCTTTGAAGGACACCGAGCTTTGTCTGGACGCTCTTCTCCATGGAAGTTCTTCGGTTC
CTCTCCAGAGGAAGGGCCCTTTCCCAAGAGAGAATAAGTAAAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004232 unedited GACCGCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTGTGAACGAAATTTTTTA TTTACACACTGTATCTAGAAGCAGATACATAAATCTTATACAATTAATTTCCAAAAATG TGCAAGAAATTAATAATTTGTTTACAAACAAAACACGTATTAATAATCAATGGACTTT GGATAATTCATTCTGTGGTGTCTCAGTACAAATGGTACACACCTGATTTGAAACATACA GAAAAAGTGTAAGTACCACCAATCTGAATTGCAAGTATTAATTTTCATGGCACTCCAACGA CTATGAAATTTCTTTCACCCAACATGTAATACTTGTACAAAATCTATAAGAATTTTT CATAATCTCTGGATGTAGAGTTTGGATCACTTTTCAGAAACAGCAACTACACACTTCGCC ATGTTATGACTGATTAATAAAAAAGAAATGTTTATAAAAAACCTTCTTTACAGGATTAATA AGTATTAATAAGAAACCATATTTGTGATTGCTAGTGTACCAACACTTTTAGAATTTTAAAG TTATTTACGGAAGTGGCTATTGTTCTTATTAGAGTTTCAAGAAAAGTGTCTATTGCTG GTAGTGTGATTTTCAATTTGAAATTAAGACTTCGCATTTAATGAAAAAGCATTAAAGATTTA ATGAAAATGTATTATTCCGATTCATTCATAAAGCAGTATCTCTCATATACCATGTGGAAT GNTATTAATAACTGGCATTCTGAAAGCATTGGTACAAAGATATTTAGACTTGTAGCACT AGCAGAGACATTGCATTAACCTATTGTAGATTTATAACTTTTATCCCGTTCAGTATACTG GCTCAGGATTACAAGCATACTTGGGGTTTGGTTCTTATGCCCAAGATTACCTTTTGAAC TGTTTCTTTACAACAAATGGTTGGTGCCCTGTACTTGGTCCCTAAAACATTTTTAGGCA TGATCATTCTGGGCAAATTTGCCTTTAAATTTAGATATTGC
Restriction Sites:	NotI-NotI
ACCN:	NM_004232
Insert Size:	5500 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_004232.2, NP_004223.2</u>
RefSeq Size:	2650 bp
RefSeq ORF:	1608 bp
Locus ID:	9306
UniProt ID:	<u>O14544</u>
Cytogenetics:	18q22.2
Domains:	SH2, SOCS

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene contains a SH2 domain and a CIS homolog domain. The protein thus belongs to the cytokine-induced STAT inhibitor (CIS), also known as suppressor of cytokine signaling (SOCS) or STAT-induced STAT inhibitor (SSI), protein family. CIS family members are known to be cytokine-inducible negative regulators of cytokine signaling. The expression of this gene can be induced by GM-CSF and EPO in hematopoietic cells. A high expression level of this gene was found in factor-independent chronic myelogenous leukemia (CML) and erythroleukemia (HEL) cell lines. [provided by RefSeq, Jul 2008]