SOCS2 cDNA Clone – Suppressor of Cytokine Signaling 2 (Human)

PRODUCT OVERVIEW

Product Name	SOCS2, cDNA Clone
Full Product Name	SOCS2 cDNA Clone
Product Gene Name	SOCS2 cdna clone
Sequence	atgaccctgc ggtgccttga gccctccggg aatggcgggg aagggacgcg gagccagtgg gggaccgcgg ggtcggcgga ggagccatcc ccgcaggcgg cgcgtctggc gaaggccctg cgggagctcg gtcagacagg atggtactgg ggaagtatga ctgttaatga agccaaagag aaattaaaag aggcaccaga aggaactttc ttgattagag atagctcgca ttcagactac ctactaacaa tatctgttaa aacatcagct ggaccaacta atcttcgaat cgaataccaa gacggaaaat tcagattgga ctctatcata tgtgtcaaat ccaagcttaa acaatttgac agtgtggttc atctgatcga ctactatgtt cagatgtgca aggataagcg gacaggtcca gaagcccccc ggaacggcac tgttcacctt tatctgacca aaccgctcta cacgtcagca ccatctctgc agcatctctg taggctcacc attaacaaat gtaccggtgc catctgggga ctgcctttac caacaagact aaaagattac ttggaagaat ataaattcca ggtataa
Molecular Weight	22,172 Da
OMIM	605117
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SOCS2 cdna clone	MBS1271342 is a cDNA clone targeting SOCS2.
Other Notes	Small volumes of SOCS2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SOCS2. It may not necessarily be applicable to this product.

NCBI GI #	14714529
NCBI GeneID	8835
NCBI Accession #	BC010399
UniProt Secondary Accession #	O14542; O95102; Q9UKS5; A8K3D1
UniProt Related Accession #	O14508
NCBI Official Full Name	Homo sapiens suppressor of cytokine signaling 2, mRNA
NCBI Official Synonym Full Names	suppressor of cytokine signaling 2
NCBI Official Symbol	SOCS2
NCBI Official Synonym Symbols	CIS2; SSI2; Cish2; SSI-2; SOCS-2; STATI2
UniProt Protein Name	Suppressor of cytokine signaling 2
UniProt Synonym Protein Names	Cytokine-inducible SH2 protein 2; CIS-2; STAT-induced STAT inhibitor 2; SSI-2
Protein Family	Suppressor of cytokine signaling
UniProt Gene Name	SOCS2

UniProt Synonym Gene Names	CIS2; SSI2; STATI2; SOCS-2; CIS-2; SSI-2
UniProt Entry Name	SOCS2_HUMAN
NCBI Protein Information	suppressor of cytokine signaling 2
NCBI Summary for SOCS2	This gene encodes a member of the suppressor of cytokine signaling (SOCS) family. SOCS family members are cytokine-inducible negative regulators of cytokine receptor signaling via the Janus kinase/signal transducer and activation of transcription pathway (the JAK/STAT pathway). SOCS family proteins interact with major molecules of signaling complexes to block further signal transduction, in part, by proteasomal depletion of receptors or signal-transducing proteins via ubiquitination. The expression of this gene can be induced by a subset of cytokines, including erythropoietin, GM-CSF, IL10, interferon (IFN)-gamma and by cytokine receptors such as growth horomone receptor. The protein encoded by this gene interacts with the cytoplasmic domain of insulin-like growth factor-1 receptor (IGF1R) and is thought to be involved in the regulation of IGF1R mediated cell signaling. This gene has pseudogenes on chromosomes 20 and 22. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]
UniProt Comments for SOCS2	SOCS2: SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. SOCS2 appears to be a negative regulator in the growth hormone/IGF1 signaling pathway. 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. Interacts with IGF1 receptor, prolactin receptor and growth hormone (GH) receptor. Associates with the Elongin BC complex. By a subset of cytokines, including EPO/erythropoietin and CSF2/GM-CSF. High expression in heart, placenta, lung, kidney and prostate. Chromosomal Location of Human Ortholog: 12q Cellular Component: cytoplasm; cytosol Molecular Function: insulin-like growth factor receptor binding; protein binding; protein kinase inhibitor activity; SH3/SH2 adaptor activity Biological Process: cellular response to hormone stimulus; cytokine and chemokine mediated signaling pathway; JAK-STAT cascade; negative regulation of apoptosis; negative regulation of insulin receptor signaling pathway; negative regulation of JAK-STAT cascade; negative regulation of protein kinase activity; response to estradiol stimulus
Research Articles on SOCS2	**1.** SOCS2 may improve outcome of TBI in mice by regulating aspects of the neuroinflammatory response
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/cdna-clone/socs2/1271342