

Product datasheet for **RC224144**

SOCS4 (NM_080867) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SOCS4 (NM_080867) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SOCS4
Synonyms:	SOCS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224144 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGAAAATATGAAAATATTAGTAAAAATGTAGATGTAAGGCCAAAAGTCTCGGAGCAGAAGTG
 CCGACAGAAAAGACGGTTATGTGTGGAGTGAAAAGATTATCTTGGTCAAAAAAGAGTGAGAGTTATTC
 AGATGCTGAGACAGTGAATGGTATAGAGAAAACCGAAGTGTCTTTAAGGAACCAAGAAAGGACAGC
 TGTTTCATCCATTGAGTTGGACTTAGATCATTCTGTGGGCATCGATTTTTAGGCCGATCTCTAAACAGA
 AACTGCAAGATGCCGTGGGGCAGTGTTCCTAATAAAGAATTGTAGTAGTCGGCACTCTTCAGGGCTTCC
 GTCTAAAAGGAAAATTCATATCAGTGAACCTCATGTAGATAAGTGTCTTTCCACCTCGATCAGATTTA
 GCCTTTAGGTGGCATTATTAACGACACACTGCTCTATAAATCCAAATCAGATGAATGGGTAAGCA
 CAGACTTGTCTCAGACTGAATTGAGGGATGGTCAGCTAAAACGAAGAAAATATGGAAGAAAATATAAAGT
 TTTCTCACATACCAATGTTCAGCCCTGTGTCATAACCACCGACAATGCTTTGTGTAGAGAAGGTCCTATG
 ACTGGCTCTGTGATGAACCTGGTTTCAAATAACAGTATAGAAGATAGTGATATGGATTCCGATGATGAAA
 TTCTAACACTTTGCACAAGTCCAGAAAAGAAAACAAACCCAAATGGGATTTGGATGATGAATCCCTGCA
 GTTGGAACACCTCCTAAATACCACACGCAGATTGATTATGTCCACTGTCTTGTACCAGACCTCCTTCAG
 ATCAATAACAACCCATGTTACTGGGGAGTGATGGATAAATACGCAGCCGAAGCACTACTGGAAGGAAAAC
 CAGAGGGTACCTTTTTACTTCGAGACTCAGCACAGGAAGACTATTTATTCTCTGTTAGTTTTAGACGCTA
 TAGTCGTTCTCTCATGCTAGAATTGAACAGTGGAAATCACAACTTAGCTTTGATGCACATGACCCTGT
 GTCTTCCATTCTCTGACATTACTGGGCTCCTAGAACATTATAAGGACCAAGCGCTGTATGTTCTTTG
 AACCACTTCTATCCACTCCCTTAATTCGGACTTCCCTTTTTCCCTGCAGCATATATGCAGAACAGTTAT
 TTGTAACGTACAACCTTATGATGGCATCGATGCCCTTCCAATTCCTTCTCTATGAAATTATATCTGAAG
 GAATATCATTATAAATCAAAGTTAGAGTACTCAGGATTGATGCACCAGAACAGCAATGC

ACGCGTACGCGGCCGCTCGAGCAGAAAAC**CTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT**
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224144 protein sequence
 Red=Cloning site Green=Tags(s)

MAENNENISKVDVPRKTSRSTRSADRKDGYYVWSGKLSWSKKSSESYSDAETVNGIEKTEVSLRNQERKHS
 CSSIELDLDHSCGHRFLGRSLKQKLQDAVGQCFFIKNCSSRHSSGLPSKRKIHISELMLDKCPFPPRSDL
 AFRWHF IKRHTAPINSKSDWVSTDLSTELRDGQLKRRNMEENINCF SHTNVQPCVITTDNALCREGPM
 TGSVMNLVSNNSIEDSDMDSDEILTLCTSSRKRKPKWDLDEILQLETPPKYHTQIDYVHCLVPDLLQ
 INNNPCYWVMDKYAAEALLEGKPEGTFLLRDSAQEDYLF SVSFRRYSRSLHARIEQWNHNSFDAHDPC
 VFHSPDITGLLEHYKDPSACMF FEPLLSTPLIRTFPFLQHI CRTVICNCTTYDGIDALPIPSSMKLYLK
 EYHYKSKVRVLRIDAPEQQC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6345_h12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_080867

ORF Size: 1320 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_080867.3](#)

RefSeq Size: 6900 bp

RefSeq ORF: 1323 bp

Locus ID: 122809

UniProt ID: [Q8WXH5](#)

Cytogenetics: 14q22.3

Domains: SH2, SOCS

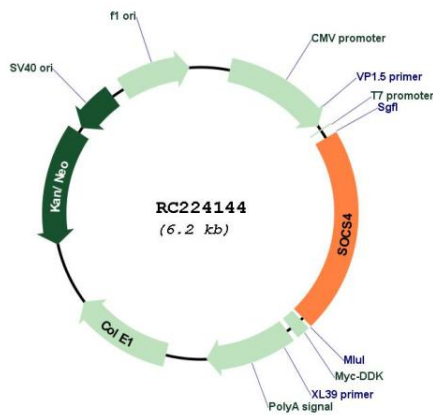
Protein Families: Druggable Genome

Protein Pathways: Insulin signaling pathway, Jak-STAT signaling pathway, Type II diabetes mellitus

MW: 50.6 kDa

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), also known as STAT-induced STAT inhibitor (SSI), protein family. SOCS family members are known to be cytokine-inducible negative regulators of cytokine signaling. Two alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224144