

Product datasheet for **RG211558**

SOCS7 (NM_014598) Human Tagged ORF Clone

Product data:

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|---------------------------|------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | SOCS7 (NM_014598) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | SOCS7 |
| Synonyms: | NAP4; NCKAP4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG211558 representing NM_014598
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGTTCGCCAACGTGGGTCCGCCGCCGGAGGAGGACGTGGAGGGCGCCCGGAGCCGGGACCC
 CGGAAGTCTGTGTCGCCGGCACCGCTGTGCCCTGGACCCCAAGGCCCTGCCGCCGGCTTGGCGCTCGA
 GCGGACCTGGGGCCCGCGGCTGGACTAGAGGCGCAGTTGGCGGCTCTGGGGCTCGGGCAGCCGGCGGG
 CCGGGGTCAAGACAGTCGGTGGGGTGTCTGCCGTGTCCGTGTCTCCTCAGCCGCCCCCTCCGAGC
 CCCAGCCGCTGTGCCGCCCGCAGGCCGGGAGGCCACCGAAACGAGCGACGCGTGTGGTCTCT
 GGAGGGCTTGAATCGGAGGCCGAGAGCCTGGAGACTAACAGTGTCTCGAAGAGGAGCTCAGCAGCCG
 GGTCGCGGAGGAGGGGGCGGCCGCTTCTGCTGCAGCCCCAGGCCCTGAATTACCTCCGGTGCCT
 TCCCGTGCAGGACTTGGTCCCTCTGGGCGCCTGAGTAGAGGGGAGCAGCAGCAGCAGCAGCAGCA
 ACCTCCCCGCCCCCGCCTCCTCCGGGCCCTCCGGCCACTCGCGGGTCTTCTCGGAAGGGCTCCTTC
 AAAATCCGCCTCAGTCGCCTCTTTCGCACCAAGAGCTGCAACGGTGGCTCCGGCGGTGGGATGGGACCG
 GCAAGAGGCCTTCTGGAGAGCTGGCTGCTTACGCTGCGAGCCTGACAGACATGGGAGGCTCTGCGGGCCG
 GGAGCTGGACGCGGGGAGGAAACCAAGTTGACAAGAAGCTCAAAGTGCCTTTTCTCCGGTCTCTTACG
 CCCCTGTTACAGGTGAAACTGTGTCGCTTGTGGATGTGGACATTTCTCAGCGGGGCTGACCTCTCCAC
 ACCCTCCAACCTCCCCCTCCTCCTCCGAGAAGAAGCCTCAGCCTCCTAGATGATATCAGTGGGACGCTGCC
 TACATCTGTCTTGTGGTCCGATGGGGTCTTCTTGCAGTCTTCCCCCTACCTCCGCCTCTCCACCC
 CATGCCCCAGATGCATTTCCCGGATTGCTCCCATCCGAGCAGCTGAATCCCTGCACAGCCAACCCCCAC
 AGCACCTCAGTGTCCCCTACCGGCCGAGCTGAGCAGCTTTCAGCCAGCCTTCGAGAGTTGGAGAA
 GTGTGGTTGGTATTGGGGCCAATGAATTGGGAAGATGCAGAGATGAAGCTGAAAGGGAAACAGATGGT
 TCTTCTGTTACGAGACAGTCTGATCCTCGTTACATCCTGAGCCTCAGTTTCCGATCACAGGGTATCA
 CCCACCACACTAGAATGGAGCACTACAGAGGAACCTTACGCTGTGGTGCATCCCAAGTTTGGAGACCG
 CTGTCAATCTGTTGTAGAGTTTATTAAGAGAGCCATTATGCACTCCAAGAATGAAAGTTTCTCTATTTT
 TTAAGATCCAGGGTCCAGGACTGCCACCAACTCCTGTCCAGTGTCTATCCAGTGTCCCGATTACGCA
 ATGTCAAATCCCTCCAGCACCTTTCAGATTCCGGATACGACAGCTCGTCAGGATAGATCACATCCAGA
 TCTCCACTGCCTAAACCTCTGATCTTATATCCGAAAGTTCTACTACTATGATCCTCAGGAAGAGGTA
 TACCTGTCTTAAAGGAAGCGCAGCTCATTCCAACAGAAGCAAGAGGTGGAACCTCCACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211558 representing NM_014598
 Red=Cloning site Green=Tags(s)

MVFRNVGRPPEEEDVEAAPEPGPSELLCPRHRCALDPKALPPGLALERTWGPAAGLEAQLAALGLGQPAG
 PGVKTVGGGCCPCPPQPPPPQPPAAAPQAGEDPTETSDALLVLEGLESEAELETNSCSEELSSP
 GRGGGGGRLLLQPPPELPPVPFPLQDLVPLGRLSRGEQQQQQQPPPPPPPPGLRPLAGPSRKGSF
 KIRLSRLFRKSCNGSGGGDGTGKRPSGELAASAASL TDMGGSAGRELDAGRPKL TRTQSAFSPVSFS
 PLFTGETVSLVDVDISQRGLTSPHPPTPPPPRRSL LLLDDISGTLPTSVLVAPMGSSLQSFPLPPPPPP
 HAPDAFPRIAPIRAAESLHSQPPHLQCPLYRPDSSSFAASLRELEKCGWYWGPMNWEDAEMKLGKPGDG
 SFLVRDSSDPYILSLSFRSQGITHHTRMEHYRGTFLWCHPKFEDRCQSVVEFIKRAIMHSKNGKFLYF
 LRSRVPGLPPTPVQLLYPVSFRSNVKSQHLCRFRIRQLVRIDHIPDLPLPKPLISYIRKFFFFYDQEEV
 YLSLKEAQLISKQKQVEPEPST

TRTRPLE - GFP Tag - V

Restriction Sites:

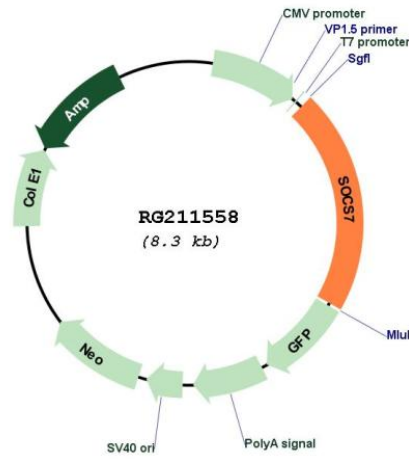
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_014598
 ORF Size: 1743 bp

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| 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: | <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: | NM_014598.3 , NP_055413.1 |
| RefSeq Size: | 2162 bp |
| RefSeq ORF: | 1938 bp |
| Locus ID: | 30837 |
| UniProt ID: | O14512 |
| Cytogenetics: | 17q12 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Jak-STAT signaling pathway |
| Gene Summary: | Regulates signaling cascades probably through protein ubiquitination and/or sequestration. Functions in insulin signaling and glucose homeostasis through IRS1 ubiquitination and subsequent proteasomal degradation. Inhibits also prolactin, growth hormone and leptin signaling by preventing STAT3 and STAT5 activation, sequestering them in the cytoplasm and reducing their binding to DNA. May be a substrate recognition component of a SCF-like E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (By similarity).[UniProtKB/Swiss-Prot Function] |