

## Product datasheet for MR203328

### Cish (NM\_009895) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cish (NM_009895) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cish
Synonyms:	Cis; CIS-1; CIS1; F17; F23; SOCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203328 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCTCTGCGTACAGGGATCTTGTCTTTGCTGGCTGTGGAGCAAATTGGGCGGCGCCTCTGTGGG  
CCCAGTCCCTGGAGTGCCCGGGCCAGCCATGCAGCCCTACCCACTGGGGCATTCCCAGAGGAAGTGAC  
AGAGGAGACCCCTGTCCAGGCAGAGAATGAACCGAAGGTGCTAGACCCTGAGGGGATCTGCTGTGCATA  
GCCAAGACGTTCTCCTACCTTCGGGAATCTGGGTGGTACTGGGGTCTATTACAGCCAGCGAGGCCCGGC  
AGCACCTACAGAAGATGCCGGAGGGTACATTCTAGTTCGAGACAGCACCCACCCAGCTACCTGTTTAC  
ACTGTCAGTCAAACACCCGTGGCCCCACCAAGTGCAGTACGAGTACGCCGATTCTAGCTTCCGGCTG  
GACTCTAACTGCTTGTCAAGACCTCGAATCCTGGCCTTCCAGATGTGGTCTGTCAGCCTGTGTCAGCACTATG  
TGGCCTCTGTGCAGCTGACACCCGGAGCGACAGCCCGGATCCTGCTCCCACCCAGCCCTGCCTATGTC  
TAAGCAAGATGCACCTAGTGACTCGGTGCTGCCTATCCCCGTGGCTACTGCAGTGCACCTGAAACTGGTG  
CAGCCCTTTGTGCGCAGGAGCAGTGCCCGCAGCTTACAACATCTGTGCGGCTAGTCATCAACCGTCTGG  
TGGCCGACGTGGACTGCTTACCCTGCCCGGCGTATGGCCGACTACCTCCGACAGTACCCTTCCAAC  
C

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203328 protein sequence  
 Red=Cloning site Green=Tags(s)

MVLCVQGSCPLLAVEQIGRRPLWAQSLLELPGPAMQPLPTGAFPEEVEETPVQAENEPKVLDPEDLLCI  
 AKTFSYLRESGWYWGSITASEARQHLQKMPGETFLVRDSTHPSYLF TLSVKTTTRGPTNVRIEYADSSFRL  
 DSNCLSRPRILAFPDVSLVQHYVASCAADTRSDSPDPAPTPALPMSKQDAPSDSVLPPIPVATAVHLKLV  
 QPFVRRSSARSLQHL CRLVINRLVADVCLPLPRRMADYL RQYPFQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009895

**ORF Size:** 774 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\\_009895.1](#)

**RefSeq Size:** 2161 bp

**RefSeq ORF:** 774 bp

**Locus ID:** 12700

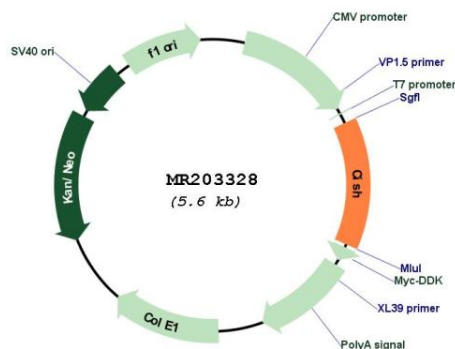
**UniProt ID:** [Q62225](#)

**Cytogenetics:** 9 57.99 cM

**MW:** 28.5 kDa

**Gene Summary:** SOCS family proteins form part of a classical negative feedback system that regulates cytokine signal transduction. CIS is involved in the negative regulation of cytokines that signal through the JAK-STAT5 pathway such as erythropoietin, prolactin and interleukin 3 (IL3) receptor. Inhibits STAT5 trans-activation by suppressing its tyrosine phosphorylation. May be a 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 (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203328