

Product datasheet for RC206496

CISH (NM_145071) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CISH (NM_145071) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CISH
Synonyms:	BACTS2; CIS; CIS-1; G18; SOCS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206496 representing NM_145071 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTCTGCGTTCAGGGACCTCGTCCTTTGCTGGCTGTGGAGCGGACTGGGCAGCGGCCCTGTGGG
CCCCGTCCTGGAAGTCCCAAGCCAGTCATGCAGCCCTGCCTGCTGGGGCCTTCTCGAGGAGGTGGC
AGAGGGTACCCAGCCAGACAGAGAGTGAGCCAAAGGTGCTGGACCCAGAGGAGGATCTGCTGTGCATA
GCCAAGACCTTCTCTACCTTCGGGAATCTGGCTGGTATTGGGGTCCATTACGGCCAGCGAGGCCCGAC
AACACCTGCAGAAGATGCCAGAAGGCACGTTCTTAGTACGTGACAGCACGCCCCAGCTACCTGTTTAC
GCTGTGTCAGTGAACCACTCGTGGCCCCACCAATGTACGCATTGAGTATGCTGACTCCAGCTTCCGTCG
GACTCCAAGTGTGTCAGGCCACGCATCCTGGCCTTTCGGATGTGGTTCAGCCTTGTGCAGCACTATG
TGGCCTCTGCACTGCTGATACCCGAAGCGACAGCCCCGATCCTGCTCCCACCCGGCCCTGCCTATGCC
TAAGGAGGATGCGCTAGTGACCCAGCACTGCCTGCTCCTCCACCAGCCACTGCTGTACACCTAAAAGT
GTGCAGCCCTTTGTACGCAGAAGCAGCGCCCGCAGCCTGCAACACCTGTGCCGCTTGTGTCATCAACCGTC
TGGTGGCCGACGTGGACTGCCTGCCACTGCCCGGCGCATGGCCGACTACCTCCGACAGTACCCCTTCCA
GCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206496 representing NM_145071
Red=Cloning site Green=Tags(s)

MVLCVQGPRPLLAVERTGQRPLWAPSLELKPVMQPLPAGAFLEEVAEGTPAQTESEPKVLDPEEDLLCI
 AKTFSYLRESGWYWGSI TASEARQHLQKMPEGTFLVRDSTHPSYLF TLSVKTTTRGPTNVRIEYADSSFRL
 DSNCLSRPRILAFPDVSLVQHYVASCTADTRSDSPDPAPTALPMPKEDAPSDPALPAPPATAVHLKL
 VQPFVRRSSARSLQHL CRLVINRLVADV DCLPLPRRMADYLRQYPFQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2588_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145071

ORF Size: 774 bp

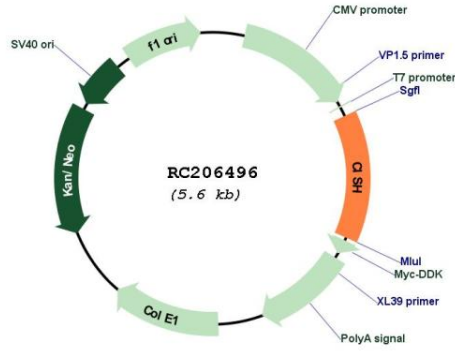
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

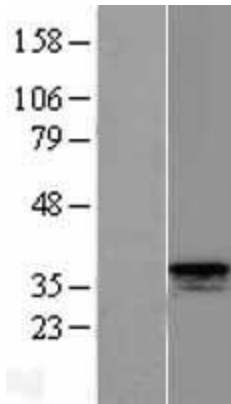
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_145071.4
RefSeq Size:	2035 bp
RefSeq ORF:	777 bp
Locus ID:	1154
UniProt ID:	Q9NSE2
Cytogenetics:	3p21.2
Domains:	SH2, SOCS
Protein Families:	Druggable Genome
Protein Pathways:	Jak-STAT signaling pathway
MW:	28.5 kDa
Gene Summary:	<p>The protein encoded by this gene contains a SH2 domain and a SOCS box 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 IL2, IL3, GM-CSF and EPO in hematopoietic cells. Proteasome-mediated degradation of this protein has been shown to be involved in the inactivation of the erythropoietin receptor. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008]</p>

Product images:



Circular map for RC206496



Western blot validation of overexpression lysate (Cat# [LY403423]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206496 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).