

Product datasheet for **RC200410**

CD70 (NM_001252) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD70 (NM_001252) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD70
Synonyms: CD27-L; CD27L; CD27LG; LPFS3; TNFSF7; TNLG8A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200410 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGAGGAGGGTTCGGGCTGCTCGGTGCGGCGCAGGCCCTATGGGTGCGTCTCGGGGCTGCTTTGG
 TCCATTGGTTCGGGGCTTGGTGATCTGCCTCGTGGTGTGCATCCAGCGCTTCGCACAGGCTCAGCAGCA
 GCTGCCGCTCGAGTCACTGGGTGGGACGTAGCTGAGCTGCAGCTGAATCACACAGGACCTCAGCAGGAC
 CCCAGGCTATACTGGCAGGGGGCCAGCACTGGGCCGCTCCTTCTGCATGGACCAGAGCTGGACAAGG
 GGCAGCTACGTATCCATCGTGATGGCATCTACATGGTACACATCCAGGTGACGCTGGCCATCTGTTCTC
 CAGCAGCGCTCCAGGCACCCACCACCCTGGCCGTGGGAATCTGCTCTCCCGCTCCCGTAGCATC
 AGCCTGCTGCGTCTCAGCTTCCACCAAGTTGTACCATTGCCTCCAGCGCTGACGCCCTGGCCCGAG
 GGGACACACTCTGCACCAACCTCACTGGGACACTTTTGCCTTCCCGAAACTGATGAGACCTTCTTTGG
 AGTGCAGTGGGTGCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200410 protein sequence
 Red=Cloning site Green=Tags(s)

MPEEGSGCSVRRRYPYGCVLRALVPLVAGLVICLVVCIQRFAQAQQQLPLESLGWDVAELQLNHTGPQQD
 PRLYWQGGPALGRSFLHGPGLDKQLRIHRDGIYVHIQVTLAICSSTTASRHHPTTLAVGICSPASRSI
 SLLRSLFHQGCTIASQRLTPLARGDTLCTNLGTLLPSRNTDETFFGVQWVRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6081_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001252

ORF Size: 579 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:

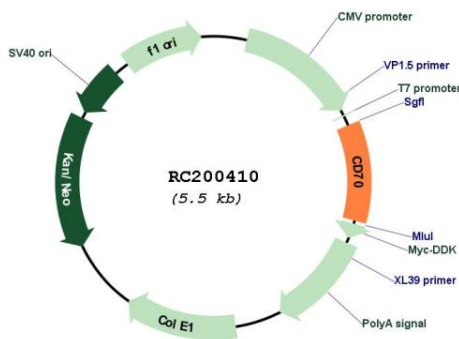
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

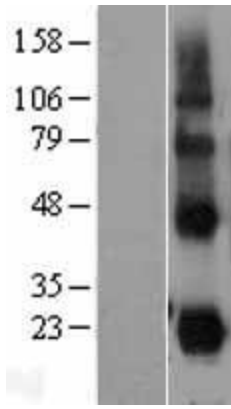
RefSeq: [NM_001252.5](#)

RefSeq Size: 913 bp

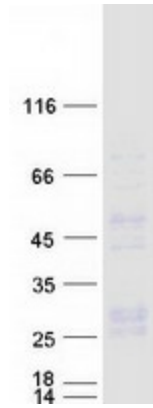
RefSeq ORF:	582 bp
Locus ID:	970
UniProt ID:	P32970
Cytogenetics:	19p13.3
Protein Families:	ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
MW:	21.1 kDa
Gene Summary:	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RC200410



Western blot validation of overexpression lysate (Cat# [LY400501]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200410 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD70 protein (Cat# [TP300410]). The protein was produced from HEK293T cells transfected with CD70 cDNA clone (Cat# RC200410) using MegaTran 2.0 (Cat# [TT210002]).