

Product datasheet for **RG200410**

CD70 (NM_001252) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD70 (NM_001252) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD70
Synonyms: CD27-L; CD27L; CD27LG; LPFS3; TNFSF7; TNLG8A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200410 representing NM_001252
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGAGGAGGGTTCGGGCTGCTCGGTGCGGCGCAGGCCCTATGGGTGCGTCTCGGGGCTGCTTTGG
 TCCATTGGTCGCGGGCTTGGTGATCGCTCGTGGTGTGCATCCAGCGCTTCGCACAGGCTCAGCAGCA
 GCTGCCGCTCGAGTCACTGGGTGGGACGTAGCTGAGCTGCAGCTGAATCACACAGGACCTCAGCAGGAC
 CCCAGGCTATACTGGCAGGGGGCCAGCACTGGGCCGCTCCTTCTGCATGGACCAGAGCTGGACAAGG
 GGCAGCTACGTATCCATCGTGATGGCATCTACATGGTACACATCCAGGTGACGCTGGCCATCTGTTCTC
 CAGCAGCGCTCCAGGCACCCACCACCCTGGCCGTGGGAATCTGCTCTCCCGCTCCCGTAGCATC
 AGCCTGCTGCGTCTCAGCTTCCACCAAGTTGTACCATTGCTCCAGCGCTGACGCCCCGAGG
 GGGACACACTCTGCACCAACTCACTGGGACACTTTTGCCTTCCCGAAACTGATGAGACCTTCTTTGG
 AGTGCAGTGGGTGCGCCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200410 representing NM_001252
 Red=Cloning site Green=Tags(s)

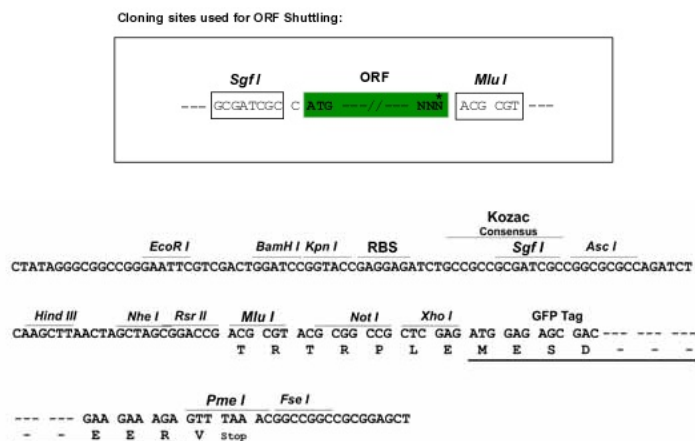
MPEEGSGCSVRRRPYGCVLRAALVPLVAGLVICLVVCIQRFAQAQQQLPLESLGWDVAELQLNHTGPQQD
 PRLYWQGGPALGRSFLHGPELDKGQLRIHRDGIYMVHIQVTLAICSSTTASRHHPTTLAVGICSPASRSI
 SLLRSLFHQGCTIASQRLTPLARGDTLCTNLGTLLPSRNTDETFFGVQWVRP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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.

RefSeq: [NM_001252.2](#), [NP_001243.1](#)

RefSeq Size: 916 bp

RefSeq ORF: 582 bp

Locus ID: 970

UniProt ID: [P32970](#)

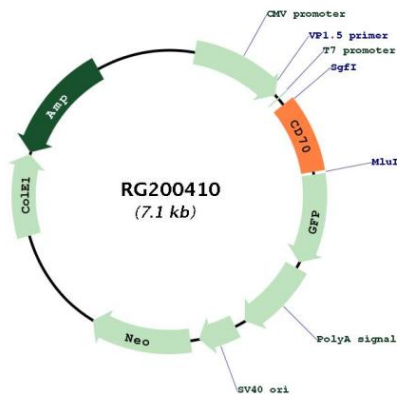
Cytogenetics: 19p13.3

Protein Families: ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

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 RG200410