

Product datasheet for **RC210004**

CD40L (CD40LG) (NM_000074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD40L (CD40LG) (NM_000074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD40L
Synonyms:	CD40L; CD154; gp39; hCD40L; HIGM1; IGM; IMD3; T-BAM; TNFSF5; TRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210004 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATCGAAACATACAACCAAACCTCTCCCGATCTGCGGCCACTGGACTGCCCATCAGCATGAAAATTT
TTATGTATTTACTTACTGTTTTTCTTATCACCCAGATGATTGGGTCAGCACTTTTTGCTGTGTATCTTCA
TAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTTCATGAAGATTTTGTATTCATGAAAACGATACAG
AGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATTAAGCCAGTTTGAAGGCT
TTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAGCTTTGAAATGCAAAAAGGTGA
TCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGCCAGCAGTAAAACAACATCTGTGTACAGTGG
GCTGAAAAAGGATACTACACCATGAGCAACAACCTGGTAACCCTGGAAAATGGGAAACAGCTGACCGTTA
AAAGACAAGGACTCTATTATATCTATGCCCAAGTCACTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGC
TCCATTTATAGCCAGCCTCTGCCTAAAGTCCCCGGTAGATTCGAGAGAACTTACTCAGAGCTGCAAAAT
ACCCACAGTTCGCCAAACCTTGCGGGCAACAATCCATCACTTGGGAGGAGATTTGAATTGCAACCAG
GTGCTTCGGTGTGTCATGTGACTGATCCAAGCAAGTGAGCCATGGCACTGGCTTACGTCCTTTGG
CTTACTCAAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210004 protein sequence
 Red=Cloning site Green=Tags(s)

MIETYNQTSRPSAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLHEDFVFMKTIQ
 RCNTGERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENSFEMQKGDQNPQIAAHVISEASSKTTSVLQW
 AEKGYTMSNNLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPF IASLCLKSPGRFERILLRAAN
 THSSAKPCGQQSIHLGGVFELQPGASVFNVTDP SQVSHGTGFTSFGLLKL

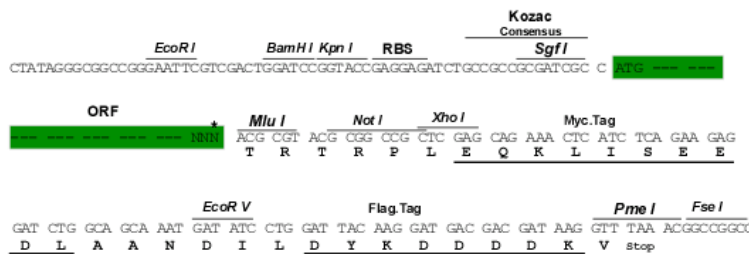
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6070_a12.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_000074

ORF Size: 783 bp

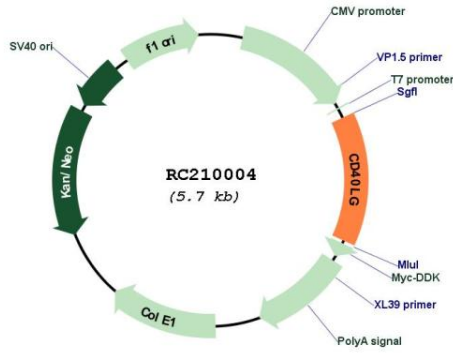
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

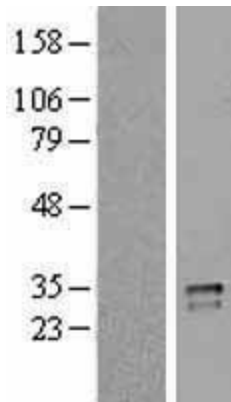
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_000074.3
RefSeq Size:	1834 bp
RefSeq ORF:	786 bp
Locus ID:	959
UniProt ID:	P29965
Cytogenetics:	Xq26.3
Domains:	TNF
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Allograft rejection, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Cytokine-cytokine receptor interaction, Primary immunodeficiency, Systemic lupus erythematosus, T cell receptor signaling pathway, Viral myocarditis
MW:	29.3 kDa
Gene Summary:	The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210004



Western blot validation of overexpression lysate (Cat# [LY400020]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210004 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).