

Product datasheet for **RG201977**

CD40 (NM_001250) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD40 (NM_001250) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD40
Synonyms:	Bp50; CDW40; p50; TNFRSF5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201977 representing NM_001250 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCGTCTGCCTCTGCAGTGCCTCTGGGGCTGCTTGCTGACCGCTGTCCATCCAGAACCACCCA
CTGCATGCAGAGAAAAACAGTACCTAATAAACAGTCAGTGCTGTTCTTTGTGCCAGCCAGGACAGAAACT
GGTGAGTGACTGCACAGAGTTCCTGAAACGGAATGCCTTCCTTGCGGTGAAAGCGAATTCCTAGACACC
TGGAACAGAGAGACACTGCCACCAGCACAAACTGCGACCCCAACCTAGGGCTTCGGGTCCAGCAGA
AGGGCACCTCAGAAACAGACACCATCTGCACCTGTGAAGAAGGCTGGCACTGTACGAGTGAGGCCTGTGA
GAGCTGTGTCCTGCACCGCTCATGCTCGCCCGGCTTTGGGGTCAAGCAGATTGCTACAGGGGTTTCTGAT
ACCATCTGCGAGCCCTGCCAGTCGGCTTCTTCTCCAATGTGTCATCTGCTTTCGAAAAATGTCACCCCTT
GGACAAGCTGTGAGACCAAGACCTGGTTGTGCAACAGGCAGGCACAAACAAGACTGATGTTGTCTGTGG
TCCCCAGGATCGGCTGAGAGCCCTGGTGGTGATCCCCATCATCTTCGGGATCCTGTTTGCCATCCTCTTG
GTGCTGGTCTTTATCAAAAAGGTGGCCAAGAAGCCAACAATAAGGCCCCCAAGCAGGAACCC
AGGAGATCAATTTCCCGACGATCTTCTGGCTCCAACACTGTGCTCCAGTGCAGGAGACTTTACATGG
ATGCCAACCGGTACCCAGGAGGATGGCAAAGAGAGTCGCATCTCAGTGCAGGAGAGACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_001250.6](#)

RefSeq Size: 1616 bp

RefSeq ORF: 834 bp

Locus ID: 958

UniProt ID: [P25942](#)

Cytogenetics: 20q13.12

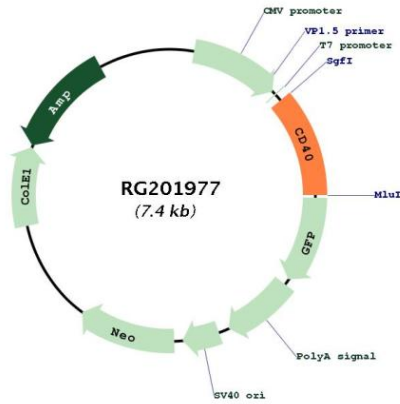
Domains: TNFR

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, Toll-like receptor signaling pathway, Viral myocarditis

Gene Summary: This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2014]

Product images:



Circular map for RG201977