

Product datasheet for **SC112886**

CD40L (CD40LG) (NM_000074) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD40L (CD40LG) (NM_000074) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD40L
Synonyms:	CD40L; CD154; gp39; hCD40L; HIGM1; IGM; IMD3; T-BAM; TNFSF5; TRAP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000074 edited ATGATCGAAACATACAACCAAACCTTCTCCCCGATCTGCGGCCACTGGACTGCCCATCAGC ATGAAAATTTTTATGTATTTACTTACTGTTTTCTTATCACCCAGATGATTGGGTCAGCA CTTTTTGCTGTGTATCTTCATAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTTCAT GAAGATTTTGTATTTCATGAAAATGATACAGAGATGCAACACAGGAGAAAGATCCTTATCC TACTGAACTGTGAGGAGATTAAGCCAGTTTGAAGGCTTTGTGAAGGATATAATGTTA AACAAAGAGGAGACGAAGAAAGAAAACAGCTTTGAAATGCAAAAAGGTGATCAGAATCCT CAAATTGCGGCACATGTCATAAGTGAGGCCAGCAGTAAAACAACATCTGTGTTACAGTGG GCTGAAAAGGATACTACACCATGAGCAACAACCTGGTAAACCCTGGAAAATGGGAAACAG CTGACCGTTAAAAGACAAGGACTCTATTATATCTATGCCCAAGTCACCTTCTGTTCCAAT CGGGAAGCTTCGAGTCAAGCTCCATTTATAGCCAGCCTCTGCCTAAAGTCCCCCGGTAGA TTCGAGAGAATCTTACTCAGAGCTGCAAATACCCACAGTTCGGCCAAACCTTGGCGGCAA CAATCCATTCACTTGGGAGGAGTATTTGAATTGCAACCAGGTGCTTCGGTGTGTTGCAAT GTGACTGATCCAAGCCAAGTGAGCCATGGCACTGGCTTACGTCCTTTGGCTTACTCAA CTCTGA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000074 unedited NGGGTGCGCATTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGTAACGTT TTTGCTGGGAGAGAAGACTACGAAGCACATTTCCAGGAAGTGTGGGCTGCAACGATTGT GCGCTCTTAATAATCCTGAGTAAGGTGGCCACTTTGACAGTCTTCTCATGCTGCCTCTG CCACCTTCTCTGCCAGAAGATACCATTTCAACTTAAACACAGCATGATCGAAACATACAA CCAAACCTCTCCCGATCTGCGGCCACTGGACTGCCATCAGCATGAAAAATTTTTATGTA TTTACTTACTGTTTTCTTATCACCCAGATGATTGGGTCAGCACTTTTTGCTGTGTATCT TCATAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTCATGAAGATTTGTATTTCAT GAAAAATGATACAGAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGA GATTAAGGACAGTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAA GAAAGAAAACAGCTTTGAAATGCAAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGT CATAAGTGAGGCCAGCAGTAAAACAACATCTGTGTTACAGTGGGCTGAAAAAGGATACTA CACCATGAGCAACAACCTGGTAACCCTGGAAAATGGGAAACAGCTGACCGTTAANAGACA GGGACTCTATTATCTATGCCAAGTCACCTTCTGTTCCAAATCGGAAGCTTCGAGTCA AGCTCCATTTATAGCCAGCCTCTGCCTAAAGTCCCCCGGTAGATTCGAGAGAAATCTACT CAGAGCTGCAAAATACCCACAGTTCGCAAAACCTTTGCGGNACATNCATTC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000074 unedited CGGCACGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTAAATGTTAAAAGTCTTTA TTATTCAAAAATAAATAACAAGATAATTACAAGTTCACCTCTGGAACAATGGAGACTGC AGGTAGATACAATAGATTTCTTTAAATACAGTCATTTGTAATGAGGAGTGGGACGGCT CAGGGCTGCACTCCCTACTCCTCACCTCATCTATAGTGGTAGAGATAGGGACAGGGTGG AAAGAAGAGAAGTACTAGCAACGGCCTGACTCTGTGTGTGTGTGTGTGTGTGTGTGT GT GGAGGGAAGAGACTGACAAGGGAAACAGAGAGATTGAGAAAGAGAGATTGGAAGAAAGA GGTTGAGAGAGAGAGACTGAAAGAGAGAGATGGAGAGAGAGAGATTGAAAGAGAATGAAT AACTGTCCGAGAGGGTGGCGGGGGGGGGGGTTTCGGTTCTCCACTGTGTTAGACGTTT TAGAGCTGGCCCCCTCAACAAGGCCATAGGAACCCAGAGTCAACCATAACTGAATGTG AGCTGAGGCTCCCCATTTCCCTTCTGCATCTTCACTGATAAATCAAATGCATTATCCATG GAAAGACACTGCACGCAAAGAAAACAAAACACTGAACTGGCAAGTTATCTGCTGTTTACTCA GAATTC AACCTGTGCATAATGGCCCTGTCTTTTCATAGGACTCTCTGGAAGTCTGCATCA GAGGGGTTGCTGCTTCAAATATAACCCTTTAGGAGCAAGGCCCGTTTTGCTTCATGTGA CCTGTAATCCATTATTACGTTTACATGCCCTGAAAAGGATAATAAATAGTCCCTCCATA AGGAGGACCCAGGGTTATAAAAAGCAGTTAACGGGGGGGGCCTAACCTCGGGCTCGTT TAAAGAAACCCACGCCAACTCTCACCCAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000074
Insert Size:	786 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
RefSeq:	NM_000074.2 , NP_000065.1
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
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]