

Product datasheet for **SC330076**

CD28 (NM_001243077) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD28 (NM_001243077) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD28
Synonyms:	Tp44
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001243077, the custom clone sequence may differ by one or more nucleotides

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ATGCTCAGGCTGCTCTTGGCTCTCAACTTATTCCTTCAATTCAAGTAACAGGAAACAAGATTTTGGTGA  
AGCAGTCGCCCATGCTTGTAGCGTACGACAATGCGGTCAACCTTAGCTGGAAACACCTTTGTCCAAGTCC  
CCTATTTCCCGGACCTTCTAAGCCCTTTGGGTGCTGGTGGTGGTGGTGGAGTCCTGGCTTGCTATAGC  
TTGCTAGTAACAGTGGCCTTTATTATTTCTGGGTGAGGAGTAAGAGGAGCAGGCTCCTGCACAGTGACT  
ACATGAACATGACTCCCCGCCGCCCGGGCCACCCGCAAGCATTACCAGCCCTATGCCCCACCACGCGA  
CTTCGCAGCCTATCGCTCCTGA
```

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001243077



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001243077.1](#), [NP_001230006.1](#)

RefSeq Size: 4609 bp

RefSeq ORF: 372 bp

Locus ID: 940

UniProt ID: [P10747](#)

Cytogenetics: 2q33.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, T cell receptor signaling pathway, Type I diabetes mellitus, Viral myocarditis

Gene Summary:

The protein encoded by this gene is essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2011]
Transcript Variant: This variant (2) uses an alternate, in-frame donor splice site at one of the coding exons compared to variant 1. This results in a shorter isoform (2) missing an internal protein segment compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.