

## Product datasheet for **RC231629**

### CD28 (NM\_001243078) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD28 (NM\_001243078) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** CD28  
**Synonyms:** Tp44  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231629 representing NM\_001243078  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGCTCAGGCTGCTCTTGCTCTCAACTTATCCCTTCAATTCAAGTAACAGGAAACACCTTTGTCCAA  
GTCCCTATTTCCCGACCTTCTAAGCCCTTTGGGTGCTGGTGGTGGTGGTGGAGTCTGGCTTGCTA  
TAGCTTGCTAGTAACAGTGGCCTTTATTATTTCTGGGTGAGGAGTAAGAGGAGCAGGCTCTGCACAGT  
GACTACATGAACATGACTCCCCGCGCCCGGGCCACCCGCAAGCATTACCAGCCTATGCCCCACCAC  
CGGACTTCGCAGCCTATCGCTCC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC231629 representing NM\_001243078  
Red=Cloning site Green=Tags(s)

MLRLLLALNLFPSIQVTGKHLCPSPFPGPSKPFVWLVVVGGVLACYSLLVTVAFIIFWVRSKRSLHLS  
DYMNMTPRRPGPTRKHYPYAPPRDFAAYRS

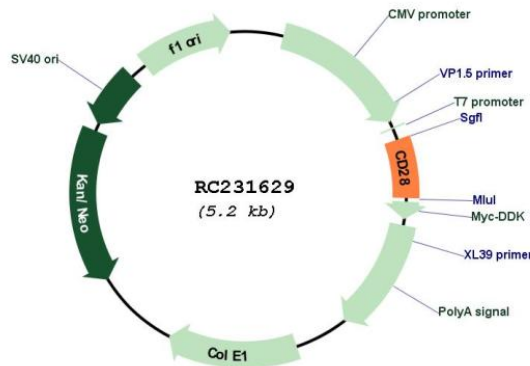
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001243078

ORF Size: 303 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](#)

|                               |   |
|-------------------------------|---|
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_001243078.1</a> , <a href="#">NP_001230007.1</a>   |
| <b>RefSeq Size:</b>           | 4543 bp   |
| <b>RefSeq ORF:</b>            | 306 bp  |
| <b>Locus ID:</b>              | 940   |
| <b>UniProt ID:</b>            | <a href="#">P10747</a>  |
| <b>Cytogenetics:</b>          | 2q33.2  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane   |
| <b>Protein Pathways:</b>      | 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  |
| <b>MW:</b>                    | 12 kDa  |
| <b>Gene Summary:</b>          | 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]   |