

Product datasheet for **SC329859**

B7-2 (CD86) (NM_001206925) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: B7-2 (CD86) (NM_001206925) Human Untagged Clone
Tag: Tag Free
Symbol: B7-2
Synonyms: B7-2; B7.2; B70; CD28LG2; LAB72
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329859 representing NM_001206925.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGCCGCACAAGTTTTGATTCGGACAGTTGGACCCTGAGACTTCACAATCTTCAGATCAAGGACAAG
GGCTTGTATCAATGTATCATCCATCACAAAAGCCACAGGAATGATTTCGCATCCACCAGATGAATTCT
GAACTGTCAGTGCTTGCTAACTTCAGTCAACCTGAAATAGTACCAATTTCTAATAACAGAAAATGTG
TACATAAATTTGACCTGCTCATCTATACACGGTTACCCAGAACCTAAGAAGATGAGTGTGTTTCTAAGA
ACCAAGAATTCAGTATCGAGTATGATGGTATTATGCAGAAATCTCAAGATAATGTCACAGAAGTGTAC
GACGTTTCCATCAGCTTGTCTGTTTCATTCCTGATGTTACGAGCAATATGACCATCTTCTGATTCTG
GAAACTGACAAGACGCGCTTTTATCTTCACCTTCTCTATAGAGCTTGAGGACCCTCAGCTCCCCCA
GACCACATTCCTTGGATTACAGCTGTACTTCCAACAGTTATTATATGTGTGATGGTTTTCTGTCTAATT
CTATGGAATGGAAGAAGAAGAGCGGCCTCGCAACTCTATAAATGTGGAACCAACACAATGGAGAGG
GAAGAGAGTGAACAGACCAAGAAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCGACGCT
GTTTTTAAAAGTTCGAAGACATCTTCATGCGACAAAAGTGATACATGTTTTTAA
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Restriction Sites: Sgfl-MluI
ACCN: NM_001206925
Insert Size: 744 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).



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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_001206925.1](#)

RefSeq Size: 2685 bp

RefSeq ORF: 744 bp

Locus ID: 942

UniProt ID: [P42081](#)

Cytogenetics: 3q13.33

Protein Families: Druggable Genome, Transcription Factors, Transmembrane

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

MW: 28.4 kDa

Gene Summary: This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms.[provided by RefSeq, May 2011]
Transcript Variant: This variant (5) lacks an alternate coding exon compared to variant 1, that causes a frameshift. The resulting isoform (5) is made from a downstream translation start site compared to isoform 1.