

Product datasheet for RC206513

B7-2 (CD86) (NM_006889) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B7-2 (CD86) (NM_006889) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	B7-2
Synonyms:	B7-2; B7.2; B70; CD28LG2; LAB72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206513 representing NM_006889 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACTGAGTAACATTCTCTTTGTGATGGCCTTCCTGCTCTCTGGTGCTCCTCTGAAGATCAAG
CTTATTTCAATGAGACTGCAGACCTGCCATGCCAATTTGCAAACCTCTCAAACCAAAGCCTGAGTGAGCT
AGTAGTATTTGGCAGGACCAGGAAAACCTGGTTCTGAATGAGGTATACTTAGGCAAAGAGAAATTTGAC
AGTGTTCAATCCAAGTATATGGGCCGCACAAGTTTGGATTTCGGACAGTTGGACCCTGAGACTTCACAATC
TTCAGATCAAGGACAAGGCTTGTATCAATGTATCATCCATCACAAAAGCCACAGGAATGATTTCGCAT
CCACCAGATGAATCTGAACTGTCACTGCTTGGTAACTTCAGTCAACCTGAAATAGTACCAATTTCTAAT
ATAACAGAAAATGTGTACATAAATTTGACCTGCTCATCTATACACGGTTACCCAGAACCTAAGAAGATGA
GTGTTTTGCTAAGAACCAAGAATCAACTATCGAGTATGATGGTATTATGCAGAAATCTCAAGATAATGT
CACAGAACTGTACGACGTTTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCAATATGACCATC
TTCTGTATTCTGGAACTGACAAGACGCGGCTTTATCTTCACTTTCTCTATAGAGCTTGAGGACCCTC
AGCCTCCCCAGACCACATTCCTGGATTACAGCTGTACTTCCAACAGTTATTATATGTGTGATGGTTTT
CTGTCTAATTCTATGAAATGGAAGAAGAAGAAGCGGCCTCGCAACTCTATAAATGTGGAACCAACACA
ATGGAGAGGGAAGAGAGTGAACAGACCAAGAAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAG
CCCAGCGTGTTTTTAAAAGTTTGAAGACATCTTCATGCGACAAAAGTGATACATGTTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206513 representing NM_006889
 Red=Cloning site Green=Tags(s)

MGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFANSQNQSLSELVVFWDQENLVLNEVYLGKEKFD
 SVHSKYMGRTSFSDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQMNSELSVLANFSQPEIIVPISN
 ITENVYINLTCSSIHGYPEPKKMSVLLRKNSTIEYDGMQKSQDNVTELYDVSISLSVSPFDVTSNMTI
 FCILETDKTRLLSSPFSIELEDPPPPDHIPWITAVLPTVVICVMVFCLILWKWKKKRPRNSYKCGTNT
 MERESEQTKKREKIHIPERSDEAQRVFKSSKTSSCDKSDTCF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006889

ORF Size: 969 bp

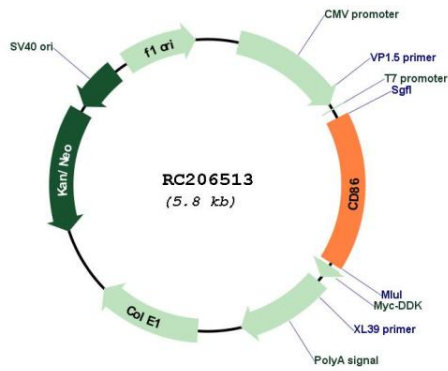
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006889.4 , NP_008820.3
RefSeq Size:	2794 bp
RefSeq ORF:	972 bp
Locus ID:	942
UniProt ID:	P42081
Cytogenetics:	3q13.33
Domains:	IGv, IG
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:	37.02 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]

Product images:



Circular map for RC206513