

Product datasheet for **RG206513**

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:	TurboGFP
Symbol:	B7-2
Synonyms:	B7-2; B7.2; B70; CD28LG2; LAB72
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206513 representing NM_006889 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCCAGTGCCTATGGGACTGAGTAACATTCTCTTTGTGATGGCCTTCTGCTCTCTGGTGCTG
CTCCTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACCTGCCATGCCAATTTGCAAACCTCAAAA
CCAAAGCCTGAGTGAGCTAGTAGTATTTGGCAGGACCAGGAAAACCTGGTTCTGAATGAGGTATACTTA
GGCAAAGAGAAAATTTGACAGTGTTCAATCAAGTATATGGGCCGCACAAGTTTTGATTCCGACAGTTGGA
CCCTGAGACTTACAATCTTCAGATCAAGGACAAGGGCTTGATCAATGTATCATCCATCACAAAAGCC
CACAGGAATGATTCGCATCCACCAGATGAATTCGAACTGTCAGTGCTTGCTAATTCAGTCAACCTGAA
ATAGTACCAATTTCTAATATAACAGAAAATGTGTACATAAATTTGACCTGCTCATCTATACACGGTTACC
CAGAACCTAAGAAGATGAGTGTTTTGCTAAGAACCAAGAATTCAGTATCGAGTATGATGGTATTATGCA
GAAATCTCAAGATAATGTCACAGAAGTGTACGACGTTCCATCAGCTTGCTGTTTCATTCCCTGATGTT
ACGAGCAATATGACCATCTTCTGTATTCTGAAACTGACAAGACGCGGCTTTTATCTTACCTTTCTCTA
TAGAGCTTGAGGACCCTCAGCCTCCCCAGACCACATTCCTTGGATTACAGCTGTACTTCCAACAGTTAT
TATATGTGTGATGGTTTTCTGTCTAATTTCTATGGAATGGAAGAAGAAGAAGCGGCTCGCAACTCTTAT
AAATGTGGAACCAACACAATGGAGAGGGAAGAGAGTGAACAGACCAAGAAAAGAGAAAAATCCATATAC
CTGAAAGATCTGATGAAACCCAGCGTGTTTTAAAAGTTCGAAGACATCTTCATGCGACAAAAGTGATAC
ATGTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206513 representing NM_006889
 Red=Cloning site Green=Tags(s)

MDPQCTMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFANSQNSLSELVVFWQDQENLVLNEVYL
 GKEKFDVSHSKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQMNSELVLANFSQPE
 IVPISNITENVYINLTCSSIHGYPEPKMSVLLRRTKNSTIEYDGMQKSQDNVTELYDVSISLSVSFPDV
 TSNMTIFCILETDKTRLLSSPFSIELEDPPQPPDHIPWITAVLPTVIICVMVFCLILWKWKKKRPRNSY
 KCGTNTMERESEQTKKREKIHIPERSDETQRVFKSSKTSSCDKSDTCF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006889

ORF Size: 987 bp

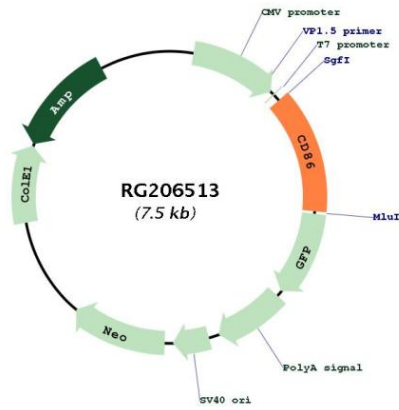
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_006889.2 , NP_008820.1
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
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 RG206513