

Specifications:

Gene:	hCD80
Accession:	NP_005182
Insert size:	879bp
Concentration:	10µg at 0.2µg/µL

hB7-1/CD80 cDNA Plasmid

CD80 CD80 molecule [*Homo sapiens* (human)]

Also known as: B7; BB1; B7-1; B7.1; LAB7; CD28LG; CD28LG1

Summary:

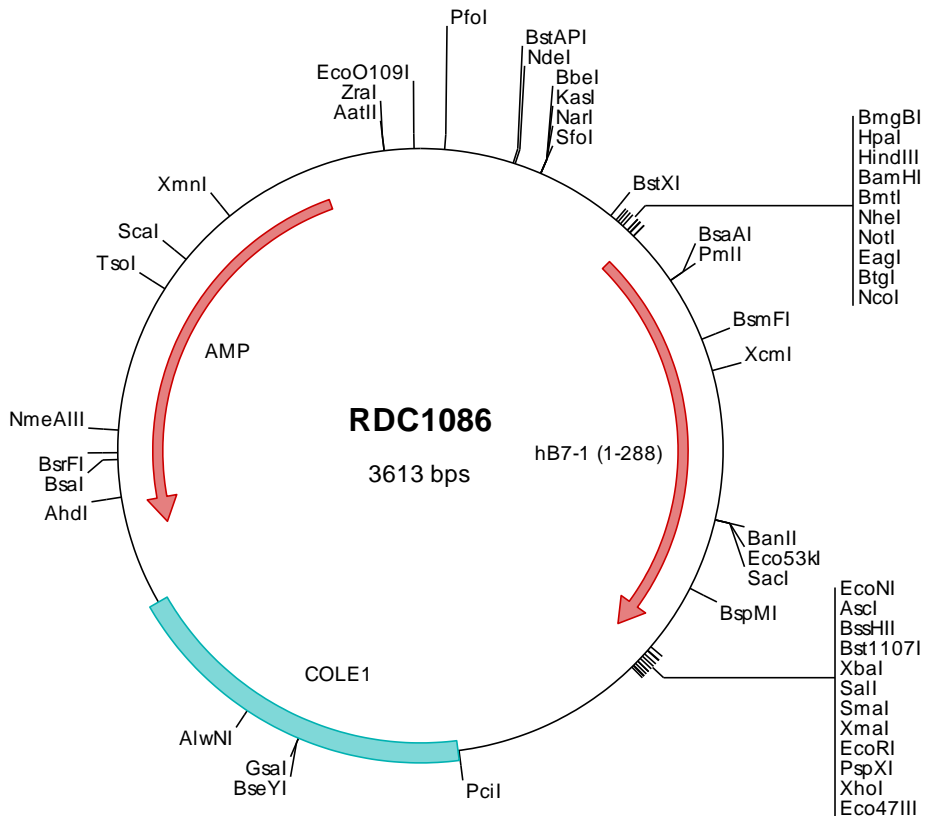
B7-1 is a membrane receptor that is activated by the binding of CD28 or CTLA-4. T-cell proliferation and cytokine production is induced by the binding of CD28, while binding to CTLA-4 has opposite effects and inhibits T-cell activation. B7-1 is expressed on activated B cells, activated T cells, and macrophages. B7-1 can also act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.





> RDC1086 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtea cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg teggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatattgc ggtgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaagg ggatgtgctg caaggcgatt aagtgggta acggcagggt tttccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tgcgtagcgc ggcgcgccacc atgggcacaca cacggaggca gggaacatca ccatccaagt gtccataacct
501 caatttcttt cagctcttgg tgcgtgctgg tctttctcac ttctgttcag gtgttatoca cgtgaccaag gaagtgaag aagtggcaac gctgtcctgt
601 ggtcaacaatg tttctgttga agagctggca caaactcgca totactggca aaaggagaag aaaaatggtgc tgactatgat gtctgggggac atgaatatat
701 ggcccagagta caagaaccgg accatctttg atataactaa taacctctcc attgtgatcc tggctctcgg cccatctgac gagggcaac acgagtgtgt
801 tgttctgaag tatgaaaaag acgcttcaaa gggggaacac ctggctgaag tgacgttacc agtcaaagct gacttoccta cacctagtat atctgaactt
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1701 atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaaggc agcaaaaaggc caggaacctg aaaaaggcgg cgttgcctggc gttttccat
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2401 tctacgggtg ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa ggatcttcc ctatgacctt ttaaatataa
2501 aatgaagttt taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag tgaggcacct atctcagcga tctgtctatt
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3601 aggccttttc gtc

> RDC1086 Translated Insert Sequence

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101 ivilalrpsd egtyecvvlk yekdafkreh laevtlsvka dfptpsisdf eiptsnirri icstsggfpe phlswlengc elnainttvs qdpetelyav
201 sskldfnmtt nhsfmcliky ghlrnvtqfn wnttkqehfp dnllpswait lisvngifvi ccltycfapr crerrrnerl rresvrpv