

Product datasheet for **RG206540**

B7-1 (CD80) (NM_005191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B7-1 (CD80) (NM_005191) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B7-1
Synonyms:	B7; B7-1; B7.1; BB1; CD28LG; CD28LG1; LAB7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206540 representing NM_005191 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCCACACGAGGCAGGGAACATCACCATCCAAGTGTCCATACCTCAATTTCTTTCAGCTCTTGG
TGCTGGCTGGTCTTTCTCACTTCTGTTCAGGTGTTATCCACGTGACCAAGGAAGTAAAGAAGTGGCAAC
GCTGTCTGTGGTCACAATGTTTCTGTTGAAGAGCTGGCACAACTCGCATCTACTGGCAAAGGAGAAG
AAAATGGTGCTGACTATGATGTCTGGGGACATGAATATATGGCCCGAGTACAAGAACCGGACCATCTTTG
ATATCACTAATAACCTCTCCATTGTGATCCTGGCTCTGCGCCATCTGACGAGGGCACATACGAGTGTGT
TGTTCTGAAGTATGAAAAGACGCTTTCAAGCGGGAACACCTGGCTGAAGTACGTTATCAGTCAAAGCT
GACTTCCCTACACCTAGTATATCTGACTTTGAAATCCAACCTTCTAATATTAGAAGGATAATTTGCTCAA
CCTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGTTGGAAAATGGAGAAGAATTAATGCCATCAACAC
AACAGTTTCCCAAGATCCTGAACTGAGCTCTATGCTGTTAGCAGCAAAGTGGATTTCAATATGACAACC
AACCACAGCTTCATGTGTCTCATCAAGTATGGACATTTAAGAGTGAATCAGACCTTCAACTGGAATACAA
CCAAGCAAGAGCATTTTCTGATAACCTGCTCCCATCTGGGCCATTACCTAATCTCAGTAAATGGAAT
TTTTGTGATATGCTGCCTGACCTACTGCTTTGCCCAAGATGCAGAGAGAGAAGGAGGAATGAGAGATTG
AGAAGGAAAGTGTACGCCCTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206540 representing NM_005191
 Red=Cloning site Green=Tags(s)

MGHTRRQGTSPSKCPYLNFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVVEELAQTRIIYWQKEK
 KMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYESVVLKYEKDAFKREHLAEVTL SVKA
 DFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDNFNMTT
 NHSFMCLIKYGHLRVNQTFNWNNTTKQEHFPDNLPLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERL
 RRESVRPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005191

ORF Size: 864 bp

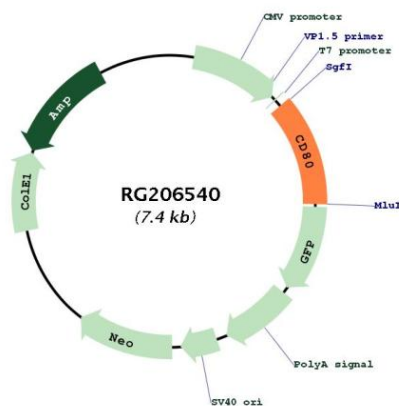
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_005191.4</u>
RefSeq Size:	2757 bp
RefSeq ORF:	867 bp
Locus ID:	941
UniProt ID:	<u>P33681</u>
Cytogenetics:	3q13.33
Domains:	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:	The protein encoded by this gene is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RG206540