

## Product datasheet for **MR227446**

### Cd80 (NM\_009855) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd80 (NM\_009855) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cd80  
**Synonyms:** B71; Cd28l; Ly-53; Ly53; MIC17; TSA1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227446 representing NM\_009855  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTGCAATTGTGAGTTGATGCAGGATACACCACTCCTCAAGTTTCCATGTCCAAGGCTCATTCTTC  
TCTTTGTGCTGCTGATTCGTCTTTCACAAGTGTCTTCAGATGTTGATGAACAAGTGTCCAAGTCACTGAA  
AGATAAGGTATTGCTGCCTTCCGTTACAACCTCCTCATGAAGATGAGTCTGAAGACCGAATCTACTGG  
CAAAAACATGACAAAGTGGTGTCTGTCTGTCATTGCTGGGAACTAAAAGTGTGGCCCGAGTATAAGAACC  
GGACTTTATATGACAACACTACCTACTCTTTATCATCCTGGGCCTGGTCTTTTCAGACCGGGGCACATA  
CAGCTGTGTCTGTTCAAAAAGAAGGAAAGAGGAACGTATGAAGTTAAACACTTGGCTTTAGTAAAGTTGTC  
ATCAAAGCTGACTTCTCTACCCCAACATAAAGTGTGAAACCCATCTGCAGACACTAAAAGGATTA  
CCTGCTTTGCTTCCGGGGTTTCCCAAAGCCTCGCTTCTCTTGGTTGGAAAATGGAAGAGAATTACCTGG  
CATCAATACGACAATTTCCAGGATCCTGAATCTGAATTGTACACCATTAGTAGCCAAGTATGATTCAAT  
ACGACTCGCAACCACACCATTAAGTGTCTCATTAAATATGGAGATGCTCACGTGTGAGGACTTCACT  
GGGAAAACCCCAAGACCCTCTGATAGCAAGAACAACACTTGTGCTCTTTGGGGCAGGATTCGGCCG  
AGTAATAACAGTCGTGTCATCGTTGTCATCATCAAATGCTTCTGTAAGCACAGAAGCTGTTTCAGAAGA  
AGAAATGAGGCAAGCAGAGAAACAACAACAGCCTTACCTTCGGGCCTGAAGAAGCATTAGCTGAACAGA  
CGTCTTCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227446 representing NM\_009855  
Red=Cloning site Green=Tags(s)

MACNCQLMQDTPLLKFCPCRLILLFVLLIRLSQVSSDVDEQLSKSVKDKVLLPCRYNSPHEDESEDRIYW  
 QKHDKVVLVSIAGKLVWPEYKNRTLYDNTTYSLIILGLVLSDRGTYSVQVQKKERGTYEVKHLALVKLS  
 IKADFSTPNITESGNPSADTKRITCFASGGFPKPRFSWLENGRELPGINTTISQDPESEL YTISSQLDFN  
 TTRNHTIKCLIKYGDHVSEDFTWEKPPEDPPDSKNTLVLF GAGFGAVITVVVIVVVIKCFCKHRSCFRR  
 RNEASRETNNSLTFGPPEALAEQTVFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2050\\_b09.zip](https://cdn.origene.com/chromatograms/ja2050_b09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009855

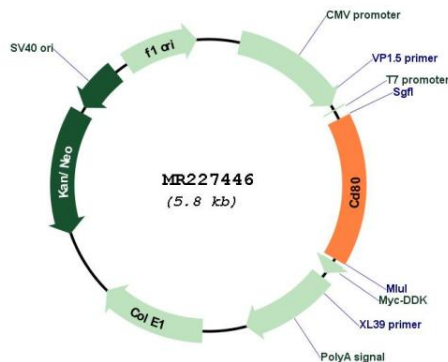
**ORF Size:** 921 bp

**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](mailto: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"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_009855.1</a> , <a href="#">NM_009855.2</a> , <a href="#">NP_033985.3</a>
RefSeq Size:	1701 bp
RefSeq ORF:	921 bp
Locus ID:	12519
UniProt ID:	<a href="#">Q00609</a>
Cytogenetics:	16 26.86 cM
MW:	35 kDa
Gene Summary:	Involved in the costimulatory signal essential for T lymphocytes activation. T-cell proliferation and cytokine production is induced by the binding of CD28 or CTLA-4 to this receptor. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR227446