

## Product datasheet for **MC208260**

### **Cd80 (NM\_009855) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cd80 (NM_009855) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC208260 representing NM_009855 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTGCAATTGTCAGTTGATGCAGGATACACCACTCCTCAAGTTTCCATGTCCAAGGCTCATTCTTC  
TCTTTGTGCTGCTGATTCTTTTACAAGTGTCTTCAGATGTTGATGAACAAGTGTCCAAGTCACTGAA  
AGATAAGGTATTGCTGCCTTGCCGTTACAACCTCCTCATGAAGATGAGTCTGAAGACCGAATCTACTGG  
CAAAAACATGACAAAGTGGTGTCTGTCTGTCATTGCTGGGAACTAAAAGTGTGGCCGAGTATAAGAACC  
GGACTTTATATGACAACACTACCTACTCTTTATCATCCTGGGCCTGGTCTTTTCAGACCGGGGCACATA  
CAGCTGTGTCGTTCAAAAAGAAAGGAAAGAGGAACGTATGAAGTTAAACACTTGGCTTTAGTAAAGTTGTC  
ATCAAAGCTGACTTCTCTACCCCAACATAAAGTGTGAAACCCATCTGCAGACACTAAAAGGATTA  
CCTGCTTTGCTTCCGGGGTTTCCCAAAGCCTCGCTTCTCTTGGTTGGAAAATGGAAGAGAATTACCTGG  
CATCAATACGACAATTTCCAGGATCCTGAATCTGAATTGTACACCATTAGTAGCCAAGTATGATTCAAT  
ACGACTCGCAACCACACCATTAAGTGTCTCATTAAATATGGAGATGCTCACGTGTGAGGACTTCACT  
GGGAAAACCCCAAGACCCTCTGATAGCAAGAACAACACTTGTGCTCTTTGGGCAGGATTCGGCCG  
AGTAATAACAGTCGTCGTCATCGTTGTCATCATCAAATGCTTCTGTAAGCACAGAAGCTGTTTCAGAAGA  
AGAAATGAGGCAAGCAGAGAAAACAACAACAGCCTTACCTTCGGGCCTGAAGAAGCATTAGCTGAACAGA  
CGTCTTCCTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja2053\\_a12.zip](https://cdn.origene.com/chromatograms/ja2053_a12.zip)

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_009855
<b>Insert Size:</b>	924 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">BC145843</a> , <a href="#">AAI45844</a>
<b>RefSeq Size:</b>	1701 bp
<b>RefSeq ORF:</b>	921 bp
<b>Locus ID:</b>	12519
<b>UniProt ID:</b>	<a href="#">Q00609</a>
<b>Cytogenetics:</b>	16 26.86 cM

**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]

Transcript Variant: This variant (2) differs in the 3' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: A downstream translational start codon is selected for this RefSeq based on its better conservation in mammalian species, a strong Kozak signal and on a higher probability of an N-terminal signal peptide being present in the resulting protein. An upstream in-frame start codon is also present but has a weaker Kozak signal and is only present in mouse; use of the upstream start codon would result in a protein that is 8 aa longer at the N-terminus. Leaky scanning by ribosomes may allow translation initiation at the downstream start codon.