

## Product datasheet for MR227055

### Cd86 (NM\_019388) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cd86 (NM\_019388) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cd86  
**Synonyms:** B7; B7-2; B7.2; B70; Cd28l2; CLS1; ETC-1; Ly-58; Ly58; MB7; MB7-2; TS/A-2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227055 representing NM\_019388  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACCCAGATGCACCATGGGCTTGGCAATCCTTATCTTTGTGACAGTCTTGCTGATCTCAGATGCTG  
 TTTCCGTGGAGACGCAAGCTTATTTCAATGGGACTGCATATCTGCCGTGCCATTACAAAGGCTCAAAA  
 CATAAGCCTGAGTGAGCTGGTAGTATTTGGCAGGACCAGCAAAAGTTGGTCTGTACGAGCACTATTTG  
 GGCACAGAGAACTTGATAGTGAATGCCAAGTACCTGGCCGACGAGCTTTGACAGGAACAACCTGGA  
 CTCTACGACTTACAATGTTTCAGATCAAGGACATGGGCTCGTACGATTGTTTTATACAAAAAAGCCACC  
 CACAGGATCAATTATCTCCAACAGACATTAACAGAGCTGTCAAGTATCGCAACTTCAGTGAACCTGAA  
 ATAAAACTGGATCAGAATGTAACAGGAAATCTGGCATAAATTTGACCTGCATGTCTAAGCAAGGTCACC  
 CGAAACCTAAGAAGATGATTTTCTGATAACTAATTCAACTAATGAGTATGGTGATAACATGCAGATATC  
 ACAAGATAATGTCACAGAAGTTCAGTATCTCCAACAGCCTCTCTTTTCATTCCCGGATGGTGTGTGG  
 CATATGACCGTTGTGTGTTCTGGAAACGGAGTCAATGAAGATTTCTCCAACCTCTCAATTTCACTC  
 AAGAGTTCCATCTGCTCAAACGATTGGAAAGGAGATTACAGTTCAGTTACTGTGGCCCTCCTCCTTGT  
 GATGCTGCTCATCATTGTATGTACAAGAAGCCGAATCAGCCTAGCAGGCCAGCAACACAGCCTTAAG  
 TTAGAGCGGGATAGTAACGCTGACAGAGAGACTATCAACCTGAAGGAATTGAACCCCAAATGCTTCAG  
 CAAAACCAAATGCAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**



**ACCN:** NM\_019388

**ORF Size:** 927 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:**

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\\_019388.2](#)

**RefSeq Size:** 2539 bp

**RefSeq ORF:** 930 bp

**Locus ID:** 12524

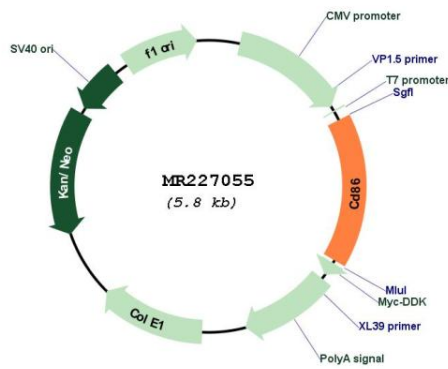
**UniProt ID:** [P42082](#)

**Cytogenetics:** 16 25.72 cM

**MW:** 35.1 kDa

**Gene Summary:** Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR227055