

Product datasheet for **MG227055**

Cd86 (NM_019388) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd86 (NM_019388) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd86
Synonyms:	B7; B7-2; B7.2; B70; Cd28 2; CLS1; ETC-1; Ly-58; Ly58; MB7; MB7-2; TS/A-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227055 representing NM_019388 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCCAGATGCACCATGGGCTTGGCAATCCTTATCTTTGTGACAGTCTTGCTGATCTCAGATGCTG
TTCCGTGGAGACGCAAGCTTATTTCAATGGGACTGCATATCTGCCGTGCCATTTACAAAGGCTCAAAA
CATAAGCCTGAGTGAGCTGGTAGTATTTGGCAGGACCAGCAAAAGTTGGTTCTGTACGAGCACTATTTG
GGCACAGAGAACTTGATAGTGAATGCCAAGTACCTGGCCGACGAGCTTTGACAGGAACAACCTGGA
CTCTACGACTTACAATGTTTCAGATCAAGGACATGGGCTCGTACGATTGTTTTATACAAAAAAGCCACC
CACAGGATCAATTATCTCCAACAGACATTAACAGAGCTGTCAAGTATCGCCAACCTCAGTGAACCTGAA
ATAAACTGGATCAGAATGTAACAGGAAATCTGGCATAAATTTGACCTGCATGTCTAAGCAAGGTCACC
CGAAACCTAAGAAGATGTATTTCTGATAACTAATTCACTAATGAGTATGGTGATAACATGCAGATATC
ACAAGATAATGTCACAGAAGTTCAGTATCTCCAACAGCCTCTCTTTTCATTCCCGGATGGTGTGTGG
CATATGACCGTTGTGTGTTCTGGAAACGGAGTCAATGAAGATTTCTCCAACCTCTCAATTTCACTC
AAGAGTTTCCATCTGCTCAAACGATTGGAAGGAGATTACAGCTTCAGTTACTGTGGCCCTCCTCTTGT
GATGCTGCTCATCATTGTATGTACAAGAAGCCGAATCAGCCTAGCAGGCCAGCAACACAGCCTTAAG
TTAGAGCGGGATAGTAACGCTGACAGAGAGACTATCAACCTGAAGGAACCTGAACCCCAAATTCGTTTCAG
CAAACCAAATGCAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227055 representing NM_019388
Red=Cloning site Green=Tags(s)

MDPRCTMGLAILIFVTVLLISDAVSVETQAYFNGTAYLPCPFTKAQNISSLSELVVFWQDQQLVLYEHYL
 GTEKLDVSNAYLGRTSFDRNNWTLRLHNVIKIDMGSYDCFIQKKPPTGSIIQQTLTELSVIANFSEPE
 IKLDQNVGTGNSGINLTCMSKQGHKPKKMYFLITNSTNEYGDNMQISQDNVTELFSSISNLSLSPFDGVM
 HMTVVCVLETESMKISSKPLNFTQEFPSAQTYWKEITASVTVALLLVMLLIIVCHKKPNQPSRPSNTASK
 LERDSNADRETINLKELEPQIASAKPNAE

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2368_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_019388

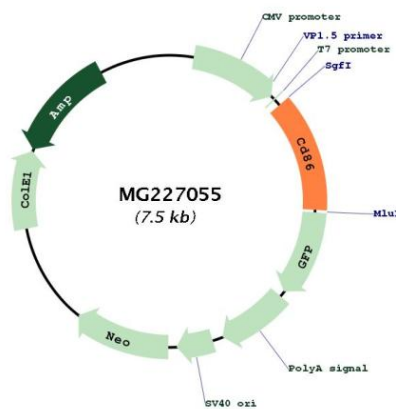
ORF Size: 927 bp

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 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:	NM_019388.2
RefSeq Size:	2539 bp
RefSeq ORF:	930 bp
Locus ID:	12524
UniProt ID:	P42082
Cytogenetics:	16 25.72 cM
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 MG227055