

## Product datasheet for MC208171

### B2m (NM\_009735) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	B2m (NM_009735) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	B2m
Synonyms:	beta2-m; beta2m; Ly-m11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208171 representing NM_009735 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCGCTCGGTGACCCTGGTCTTTCTGGTGTGTCTCACTGACCGCCTGTATGCTATCCAGAAAA  
CCCCTCAAATTCAGTATACTCACGCCACCCACCGAGAATGGGAAGCCGAACATACTGAAGTACTACGT  
AACACAGTTCCACCCGCTCACATTGAAATCAAATGCTGAAGAACGGGAAAAAATTCCTAAAGTAGAG  
ATGTCAGATATGTCCTTCAGCAAGGACTGGTCTTTCTATATCCTGGCTCACACTGAATTCACCCCACTG  
AGACTGATACATACGCCCTGCAGAGTTAAGCATGCCAGTATGGCCGAGCCAAGACCGTCTACTGGGATCG  
AGACATGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1667\\_e04.zip](https://cdn.origene.com/chromatograms/ja1667_e04.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_009735

Insert Size: 360 bp



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**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](#)

**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\\_009735.3](#), [NP\\_033865.2](#)

**RefSeq Size:** 858 bp

**RefSeq ORF:** 360 bp

**Locus ID:** 12010

**UniProt ID:** [P01887](#)

**Cytogenetics:** 2 60.55 cM

**Gene Summary:** Component of the class I major histocompatibility complex (MHC). Involved in the presentation of peptide antigens to the immune system.[UniProtKB/Swiss-Prot Function]