

## Product datasheet for RC207587L3

## OriGene Technologies, Inc.

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## beta 2 Microglobulin (B2M) (NM\_004048) Human Tagged Lenti ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** beta 2 Microglobulin (B2M) (NM\_004048) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: beta 2 Microglobulin

Synonyms: IMD43

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

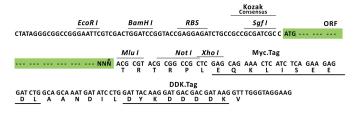
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC207587).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_004048

ORF Size: 357 bp



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**OTI Disclaimer:** 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: <u>NM 004048.2</u>

 RefSeq Size:
 987 bp

 RefSeq ORF:
 360 bp

 Locus ID:
 567

 UniProt ID:
 P61769

Cytogenetics: 15q21.1

Domains: ig, IGc1

Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: Antigen processing and presentation

**MW:** 13.71 kDa

**Gene Summary:** This gene encodes a serum protein found in association with the major histocompatibility

complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has

a predominantly beta-pleated sheet structure that can form amyloid fibrils in some

pathological conditions. The encoded antimicrobial protein displays antibacterial activity in

amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.[provided by RefSeq, Aug 2014]