

Product datasheet for **RG207587**

beta 2 Microglobulin (B2M) (NM_004048) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta 2 Microglobulin (B2M) (NM_004048) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	beta 2 Microglobulin
Synonyms:	IMD43
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<p>>RG207587 representing NM_004048 Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC</p> <p>ATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTCTTTCTGGCCTGGAGGCTATCCAGCGTACTCCAAAGATTCAAGTTTACTCACGTATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATTGCTATGTGCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTTCAGACTTGTCTTTAGCAAGGACTGGTCTTTCTATCTCTTGTACTACTGAATTCACCCCCACTGAAAAAGATGAGTATGCCTGCCGTGTGAACCATGTGACTTTGTACAGCCAAGATAGTTAAGTGGGATCGAGACATG</p> <p>ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA</p> <p>>RG207587 representing NM_004048 Red=Cloning site Green=Tags(s)</p> <p>MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLFSKDWFSFYLLYYTEFTPTEKDEYACRVNHVTLSPKIVKWRDM</p> <p>TRTRPLE - GFP Tag - V</p>
Protein Sequence:	
Restriction Sites:	Sgfl-MluI



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Cloning Scheme:


ACCN: NM_004048

ORF Size: 357 bp

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.

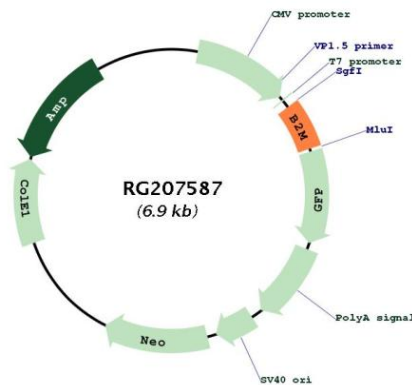
RefSeq: [NM_004048.4](#)

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
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]

Product images:



Circular map for RG207587