

Product datasheet for **SC117632**

beta 2 Microglobulin (B2M) (NM_004048) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta 2 Microglobulin (B2M) (NM_004048) Human Untagged Clone
Tag:	Tag Free
Symbol:	beta 2 Microglobulin
Synonyms:	IMD43
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117632 sequence for NM_004048 edited (data generated by NextGen Sequencing)

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ATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTCTTCTGGCCTGGAGGCT
ATCCAGCGTACTCCAAAGATTCAGGTTTACTCAGTCATCCAGCAGAGAATGGAAAGTCA
AATTTCCGTAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTG
AAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTGG
TCTTTCTATCTTGTACTACACTGAATTCACCCCACTGAAAAAGATGAGTATGCCTGC
CGTGTGAACCATGTGACTTTGTACAGCCCAAGATAGTTAAGTGGGATCGAGACATGTAA
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Clone variation with respect to NM_004048.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004048 unedited AGATTTCCGGATTTGTAAATCCGNACTTCACTATAGGGCGGCACGCCAATTCGGCAGAG GCAGCATTCCGGCCGAGATGTCTCGCTCCGTGGCCTTAGCTGTGCTCGCGCTACTCTCTC TTTCTGGCCTGGAGGCTATCCAGCGTACTCCAAAGATTGAGTTTACTCACGTCATCCAG CAGAGAATGGAAGTCAAATTTCTGAATTGCTATGTGCTGTGTTTCATCCATCCGACA TTGAAGTTGACTTACTGAAGAATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGT CTTTCAGCAAGGACTGGTCTTTCTATCTCTTGTACTACACTGAATTCACCCCCACTGAAA AAGATGAGTATGCCTGCCGTGTGAACCATGTGACTTTGTACAGCCCAAGATAGTTAAGT GGGATCGAGACATGTAAGCAGCATCATGGAGGTTTGAAGATGCCGCATTTGGATTGGATG AATTCCAAATTCTGCTTGCTTGTCTTTTAAATTTGATATGCTTATACACTTACACTTTAT GCACAAAATGTAGGGTTATAATAATGTTAACATGGACATGATCTTCTTTATAATTCTACT TTGAGTGTCTCCATGTTTGTATCTGAGCAGGTTGCTCCACAGGTAGCTCTAGGA GGGCTGGCAACTTAGAGGTGGGAGCAGAGAATTCTTATCCAACATCAACATCTTGGT CAGATTTGAACTTTCAATCTCTTGCCTCAAAGCTTGTAAAGATAGTTAAGCGTGCATA AGTTAACTTCCAATTTACATACTCTGCTTAGAATTTGGGAAAAATTTAGAAATATATTG ACAGGATTATTGAAATTTGTTATAATGAATGAAACATTTTGTCATATNAGATTCATATT TACTTTCTAN
Restriction Sites:	NotI-NotI
ACCN:	NM_004048
Insert Size:	360 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_004048.2 , NP_004039.1
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]