

Product datasheet for **MG203106**

Gzmb (NM_013542) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gzmb (NM_013542) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gzmb
Synonyms:	AI553453; CCP; CCP-1/C1; CCP-1/C11; CCP1; Ctl; Ctla; Ctla-1; Ctla1; GZB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203106 representing NM_013542 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGATCCTCCTGCTACTGCTGACCTTGCTCTGGCCTCCAGGACAAAGGCAGGGGAGATCATCGGGG
GACATGAAGTCAAGCCCCACTCTCGACCCTACATGGCCTTACTTTTCGATCAAGGATCAGCAGCCTGAGGC
GATATGTGGGGGCTTCTTATTCGAGAGGACTTTGTGCTGACTGCTGCTCACTGTGAAGGAAGTATAATA
AATGTCACCTTTGGGGGCCACAACATCAAAGAACAGGAGAAGACCCAGCAAGTCATCCCTATGGTAAAT
GCATTCACCCAGACTATAATCCTAAGACATTCCTCAATGACATCATGCTGCTAAAGCTGAAGAGTAA
GGCCAAGAGGACTAGAGCTGTGAGGCCCTCAACCTGCCAGGCGCAATGTCAATGTGAAGCCAGGAGAT
GTGTGCTATGTGGCTGGTTGGGGAAGGATGGCCCCAATGGGCAAATACTCAAACACGCTACAAGAGGTTG
AGCTGACAGTACAGAAGGATCGGGAGTGTGAGTCCTACTTTAAAAATCGTTACAACAAAACCAATCAGAT
ATGTGCGGGGGACCCAAAGACCAACGTGCTTCTTTTCGGGGGATTCTGGAGGCCCGCTTGTGTGTA
AAAGTGGCTGCAGGCATAGTTTCCTATGGATATAAGGATGGTTCACCTCCACGTGCTTTCACCAAAGTCT
CGAGTTTCTTATCCTGGATAAAGAAAACAATGAAAAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203106 representing NM_013542
Red=Cloning site Green=Tags(s)

MKILLLLLTLASLRTKAGEIIGGHEVKPHSRPYMALLSIKDQQPEAICGGFLIREDFVLTAAHCEGSII
 NVTLLGAHNIKEQEKTQQVIPMVKCIHPDYNPKTFSDIIMLLKLSKAKRTRAVRPLNLP RRNVNVKPGD
 VCYVAGWRMAPMGKYSNTLQVELTVQKDRECESYFKNRYNKTNQICAGDPKTKRASFRGDSGGPLVCK
 KVAAGIVSYGYKDGSPPRRAFTKVSSFLSWIKKTMKSS

TRTRPLE - GFP Tag - V

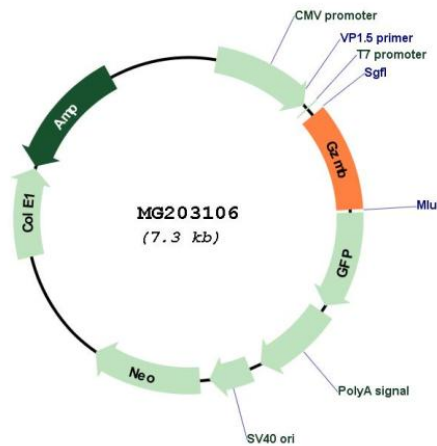
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_013542

ORF Size: 741 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:	<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_013542.3
RefSeq Size:	1418 bp
RefSeq ORF:	744 bp
Locus ID:	14939
UniProt ID:	P04187
Cytogenetics:	14 28.19 cM
Gene Summary:	This gene encodes a member of the granzyme subfamily of proteins, part of the peptidase S1 family of serine proteases. The encoded preproprotein is secreted by natural killer (NK) cells and cytotoxic T lymphocytes (CTLs) and proteolytically processed to generate the active protease, which induces target cell apoptosis. This protein also processes cytokines and degrades extracellular matrix proteins, and these roles are implicated in chronic inflammation and wound healing. Mice lacking a functional copy of this gene exhibit impaired immune cell-mediated cytotoxicity. [provided by RefSeq, Sep 2016]