

Product datasheet for **MG203381**

Gzma (NM_010370) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gzma (NM_010370) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gzma
Synonyms:	AW494114; Ctla-3; Ctla3; Hf; Hf1; SE1; TSP-1; TSP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203381 representing NM_010370 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAACGCCTCTGGTCCCCGGGGGCCATCTTGCTACTCTCCTTTTTCTTCTGCTTATTCTGAAG
GAGGCTGTGAAAGAATCATTGGAGGAGACACGGTTGTTCTCACTCAAGACCGTATATGGCTCTACTTAA
ACTTAGTTCAAATACCATCTGTGCTGGCGCTTTGATTGAAAAGAAGTGGGTGTTGACTGCTGCCACTGT
AACGTGGGAAAGAGATCTAAGTTCATTCTGGGGCTCACTCAATCAATAAGGAGCCAGAACAACAGATAT
TGACTGTTAAGAAAGCATTTCCTATCCATGCTATGATGAATATACACGTGAGGGGGATCTACAACCTGT
ACGGCTAAAGAAAAAGCAACAGTTAACAGAAATGTGGCTATCCTTCACCTACCTAAAAAGGAGATGAT
GTGAAACCAGGAACCAGATGCCGAGTAGCAGGATGGGGGAGATTTGGCAATAAGTCAGCTCCCTCTGAAA
CTCTGAGAGAAGTCAACATCACTGTCTATAGACAGAAAAATCTGCAATGATGAAAAACACTATAATTTTCA
TCCTGTAATTGGACTAAACATGATTTGTGCAGGGGACCTCCGTGGTGGAAAGGACTCCTGCAATGGGGAT
TCTGGCAGCCCTCTGCTATGTGATGGTATTTTGCAGGCATCACCTCTTTTGGTGGAGAGAAGTGTGGAG
ATCGCCGATGGCCTGGTGTCTATACTTTCTCTCAGATAAACACCTCAATTGGATAAAGAAGATTATGAA
GGTTCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203381 representing NM_010370
Red=Cloning site Green=Tags(s)

MRNASGPRGPSLATLLFLLLIPEGGCERIIGGDTVPHSRPYMALLKLSNTICAGALIEKNWVLTAAHC
 NVGKRKSFILGAHSINKEPEQQILTVKKAFFPYCYDEYTRGDLQLVRLKKKATVNRNVAIHLPLKKGDD
 VKPGTRCRVAGWGRFGNKSAPSETLREVNITVIDRKICNDEKHYNFHPVIGLNMICAGDLRGGKDCSNGD
 SGSPLLCDGILRGITSFSGGEKCGDRRWPGVYTFLSDKHLNWIKKIMKGSV

TRTRPLE - GFP Tag - V

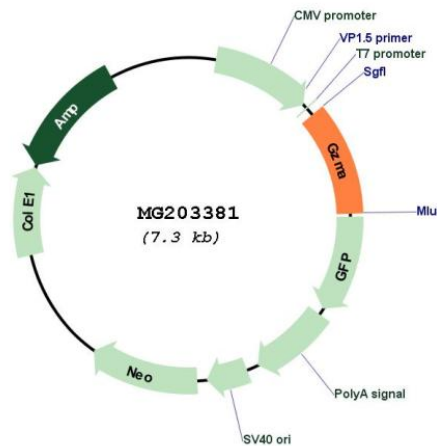
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_010370

ORF Size: 780 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_010370.3
RefSeq Size:	878 bp
RefSeq ORF:	783 bp
Locus ID:	14938
UniProt ID:	P11032
Cytogenetics:	13 63.93 cM
Gene Summary:	Abundant protease in the cytosolic granules of cytotoxic T-cells and NK-cells which activates caspase-independent cell death with morphological features of apoptosis when delivered into the target cell through the immunological synapse. It cleaves after Lys or Arg. Cleaves APEX1 after 'Lys-31' and destroys its oxidative repair activity. Cleaves the nucleosome assembly protein SET after 'Lys-189', which disrupts its nucleosome assembly activity and allows the SET complex to translocate into the nucleus to nick and degrade the DNA (By similarity). [UniProtKB/Swiss-Prot Function]