

Product datasheet for **MR227896**

Gzmm (NM_001302499) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gzmm (NM_001302499) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gzmm
Synonyms: Lmet; Lmet1; MMET-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227896 representing NM_001302499
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACCCACCAGGGTGGGCCCGGGCCAGGGCCCTGCAGGAGTTGGATCTGCGTGTGCTGGATACCCAAA
TGTGTAACAACAGCCGCTTCTGGAACGGTGTCTCATAGACAGCATGCTATGCTTAAAGGCTGGGAGCAA
GAGCCAAGCCCCCTGCAAGGGTACTCTGGAGGGCCCCCTGGTGTGTGGCAAAGGCCAGGTGGATGGGATC
CTGTCTTTTCAGCTCCAAAACCTGCACAGACATCTCAAGCCACCTGTGGCCACTGCTGTAGCCCCCTACA
GCTCCTGGATCAGGAAGGTCATTGGTCGCTGGTCACCCCAATCTTTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227896 representing NM_001302499
Red=Cloning site Green=Tags(s)

MTHQGGPRARALQELDLRVLDTQMCNNSRFWNGVLIDSMLCLKAGSKSQAPCKGDSGGPLVCGKGVVDGI
LSFSSKTCTDIFKPPVATAVAPYSSWIRKVIGRWSPQSLV

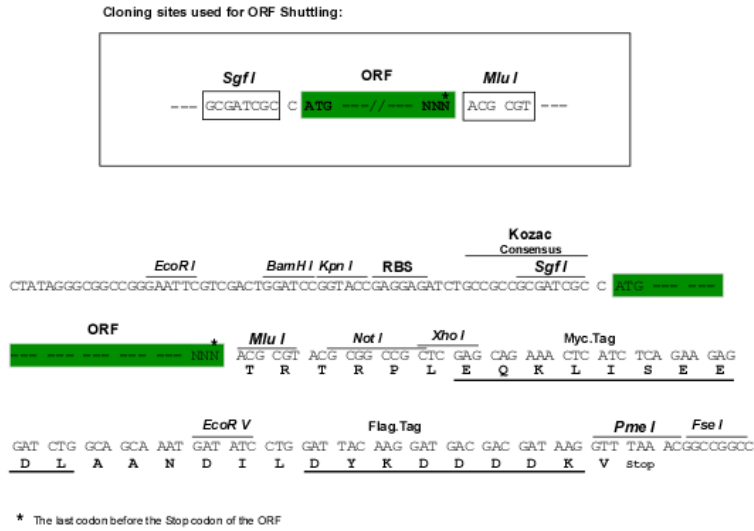
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

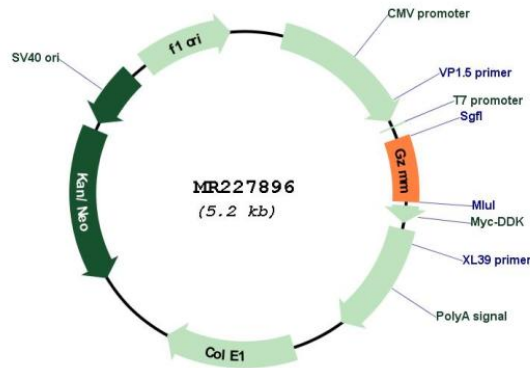


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001302499

ORF Size: 330 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:	<u>NM_001302499.1</u> , <u>NP_001289428.1</u>
RefSeq Size:	815 bp
RefSeq ORF:	333 bp
Locus ID:	16904
Cytogenetics:	10 39.72 cM
MW:	12.3 kDa
Gene Summary:	The protein encoded by this gene is a member of a family of cytotoxic lymphocyte serine proteases called granzymes, which are expressed by cytotoxic T lymphocytes and natural killer cells. This protein belongs to a subfamily of granzymes that cleave after methionine residues. Natural killer cell development, homeostasis and cytotoxicity are normal in mice deficient for this gene, but they demonstrate increased susceptibility to murine cytomegalovirus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]