

Product datasheet for MC226662

Gzmm (NM_001302485) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gzmm (NM_001302485) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gzmm
Synonyms:	Lmet; Lmet1; MMET-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226662 representing NM_001302485 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGAGGTCTGCTGGTCCCTGCTGCTACTGCTGGCCCTGAAAACACTGTGGGCAGGCAACAGATTGAGA
 CCCAGATCATTGGGGGTCGAGAGGCAGTCCCGCACTCCCGCCCATACATGGCCTCTCTACAGAAAGCCAA
 GTCCCCATGTGTGGGGGAGTCTTGTGCATCGGAAGTGGGTATTGACAGCTGCCCACTGCCTGTCTGAG
 CCGCTACAGAACCTGAAGCTGGTGTGGCCTGCACAACCTCCATGATCTCCAAGATCCTGGCCTCACCT
 TCTACATCCGGGAAGCCATTAAACACCCTGGCTACAACCACAAATATGAGAACGACCTGGCACTGCTTAA
 GCTAGATAGACGAGTGCAGCCCAGCAAGAATGTCAAACCACTAGCTCTGCCAAGAAAGCCCCGATCCAAG
 CCGGCAGAAGGTACCTGGTGCAGCACAGCTGGCTGGGGAATGACCCACCAGGGTGGGCCCCGGGCCAGGG
 CCCTGCAGGAGTTGGATCTGCGTGTGCTGGATACCCAAATGTGTAACAACAGCCGCTTCTGGAACGGTGT
 CCTCATAGACAGCATGCTATGCTTAAAGGCTGGGAGCAAGAGCCAAGCCCCCTGCAAGGGTGACTCTGGA
 GGGCCCCCTGGTGTGTGGCAAAGGCCAGGTGGATGGGATCCTGTCTTTCAGCTCCAAAACCTGCACAGACA
 TCTTCAAGCCACCTGTGGCCACTGCTGTAGCCCCCTACAGCTCCTGGATCAGGAAGGTATTGGTCGCTG
 GTCACCCCAATCTTTGGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001302485
Insert Size:	792 bp


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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001302485.1</u> , <u>NP_001289414.1</u>
RefSeq Size:	1301 bp
RefSeq ORF:	792 bp
Locus ID:	16904
Cytogenetics:	10 39.72 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) utilizes an alternate in-frame splice site in the 5' coding region. This results in a shorter protein (isoform 2), compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>