

Product datasheet for **RG232174**

Granzyme M (GZMM) (NM_001258351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Granzyme M (GZMM) (NM_001258351) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GZMM
Synonyms:	LMET1; MET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232174 representing NM_001258351 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCACTGCAGAGAAATGGCTCCCACCTGTGCGGGGTGTCTGGTGCACCCAAAGTGGGTGCTGA
CGGCTGCCACTGCCTGGCCAGCGGATGGCCAGCTGAGGCTGGTGTGGGGCTCCACACCCTGGACAG
CCCCGGTCTCACCTTCCACATCAAGGCAGCCATCCAGCACCTCGCTACAAGCCCGTCCCTGCCCTGGAG
AACGACCTCGCGCTGCTCAGCTGGACGGGAAAGTGAAGCCAGCCGGACCATCCGGCCGTTGGCCCTGC
CCAGTAAGCGCCAGGTGGTGGCAGCAGGACTCGGTGCAGCATGGCCGGCTGGGGCTGACCCACCAGGG
CGGGCGCCTGTCCGGGTGCTGCGGGAGCTGGACCTCAAAGTGTGGACACCCGATGTGTAAACAACAGC
CGCTTCTGGAACGGCAGCCTCTCCCCAGCATGGTCTGCCTGGCGGCCGACTCCAAGGACCAGGCTCCCT
GCAAGGGTGACTCGGGCGGGCCCTGGTGTGTGGCAAAGGCCGGGTGTTGGCCGGAGTCTGTCTTTCAG
CTCCAGGGTCTGCACTGACATCTCAAGCCTCCCGTGGCCACCGCTGTGGCGCCTTACGTGTCTGGATC
AGGAAGGTCACCGGCCGATCGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232174 representing NM_001258351
Red=Cloning site Green=Tags(s)

MASLQRNGSHLCGGVLVHPKWVLTAAHCLAQRMAQLRLVLGLHTLDSPGLTFHIKAAIQHPRYKVPVPALE
 NDLALLQLDGVKVPSTIRPLALPSKRQVVAAGTRCSMAGWGLTHQGRLSRVLRDLQVLDTRMCNNS
 RFWNGSLSPSMVCLAADSKDQAPCKGDSGGPLVCGKGRVLAGVLSFSSRVCTDIFKPPVATAVAPVYSWI
 RKVTGRSA

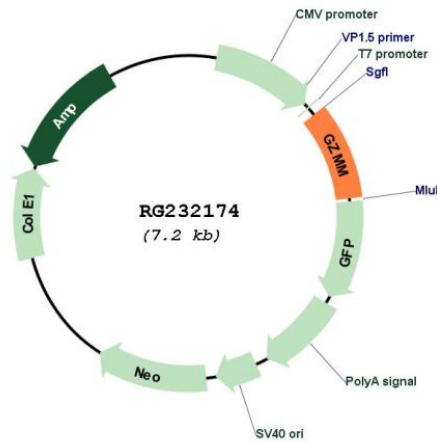
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001258351

ORF Size: 654 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_001258351.1 , NP_001245280.1
RefSeq Size:	954 bp
RefSeq ORF:	657 bp
Locus ID:	3004
UniProt ID:	P51124
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
Gene Summary:	Human natural killer (NK) cells and activated lymphocytes express and store a distinct subset of neutral serine proteases together with proteoglycans and other immune effector molecules in large cytoplasmic granules. These serine proteases are collectively termed granzymes and include 4 distinct gene products: granzyme A, granzyme B, granzyme H, and the protein encoded by this gene, granzyme M. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]