

Product datasheet for **RG231906**

Granzyme H (GZMH) (NM_001270781) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Granzyme H (GZMH) (NM_001270781) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GZMH
Synonyms: CCP-X; CGL-2; CSP-C; CTLA1; CTSL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231906 representing NM_001270781
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCCATTCTCTCTCTGTTGGCCTTTCTTCTGACCCTGGGGCTGGGACAGAGGAGATCATCGGGG
 GCCATGAGGCCAAGCCCCACTCCCGCCCTACATGGCCTTTGTTTCAGTTTCTGCAAGAGAAGAGTCGGAA
 GAGGTGTGGCGCATCCTAGTGAGAAAGGACTTTGTGCTGACAGCTGCTCACTGCCAGGGAAGCTCCATA
 AATGTCACCTTGGGGGCCACAATATCAAGGAACAGGAGCGGACCCAGCAGTTTATCCCTGTGAAAAGAC
 CCATCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCATGCTACTGCAGGGGGACTCCGG
 GGGCCCCCTCGTGTGTAAGGACGTAGCCCAAGGTATTCTCTCTATGAAACAAAAAAGGGACACCTCCA
 GGAGTCTACATCAAGGTCTCACACTTCTGCCCTGGATAAAGAGAACAATGAAGCGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231906 representing NM_001270781
 Red=Cloning site Green=Tags(s)

MQPFLLLLAFLLLTPGAGTEEIIGGHEAKPHSRPYMAFVQFLQEKSRRKRCGGILVRKDFVLTAAHCQGS
 NVTLGAHNIKEQERTQQFIPVKRPIPHPAYNPKNFSNDIMLLQGDSSGGLVCKDVAQGILSYGNKKGTPP
 GYYIKVSHFLPWIKRTMKRL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

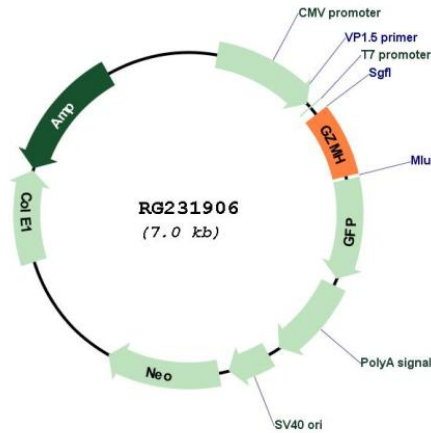


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_001270781

ORF Size: 480 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_001270781.2</u>
RefSeq Size:	729 bp
RefSeq ORF:	483 bp
Locus ID:	2999
UniProt ID:	<u>P20718</u>
Cytogenetics:	14q12
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>This gene encodes a member of the peptidase S1 family of serine proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a chymotrypsin-like protease. This protein is reported to be constitutively expressed in the NK (natural killer) cells of the immune system and may play a role in the cytotoxic arm of the innate immune response by inducing target cell death and by directly cleaving substrates in pathogen-infected cells. This gene is present in a gene cluster with another member of the granzyme subfamily on chromosome 14. [provided by RefSeq, Nov 2015]</p>