

Product datasheet for **RG236350**

Granzyme H (GZMH) (NM_001270780) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Granzyme H (GZMH) (NM_001270780) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Granzyme H
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: >RG236350 representing NM_001270780.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGCCATTCTCCTCTCTGTTGGCCTTTCTTCTGACCCTGGGGCTGGGACAGAGGAGATCATCGGG
GGCCATGAGGCCAAGCCCCACTCCCGCCCTACATGGCCTTTGTTGAGTTTCTGCAAGAGAAGAGTCGG
AAGAGGTGTGGCGGCATCCTAGTGAGAAAGGACTTTGTGCTGACAGCTGCTCACTGCCAGGGAAGCTCC
ATAAATGCACCTTGGGGGCCACAATATCAAGGAACAGGAGCGGACCCAGCAGTTTATCCCTGTGAAA
AGACCCATCCCCATCCAGCCTATAATCCTAAGAACTTCTCAACGACATCATGCTACTGCAGCTGGAG
AGAAAGGCCAAGTGACCACAGCTGTGCGGCCTCTCAGGCTACCTAGCAGCAAGGCCAGGGGACTCC
GGGGGGCCCTCGTGTGTAAAGACGTAGCCAAGGTAATCTCTCTATGGAACAAAAAAGGACACCT
CCAGGAGTCTACATCAAGGTCTCACACTTCTGCCCTGGATAAAGAGAACAATGAAGCGCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236350
Blue=ORF Red=Cloning site Green=Tag(s)

```
MQPFLLLLLAFLLTPGAGTEEIIIGHEAKPHSRPYMAFVQFLQEKSRKRCGGILVRKDFVLTAAHCQGSS
INVTLGAHNIKEQERTQQFIPVKRPIPHPAYNPKNFSNDIMLLQLERKAKWTTAVRPLRLPSSKAQGDS
GGPLVCKDVAQGILSYGNKKGTPPGVYIKVSHFLPWIKRTMKRL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



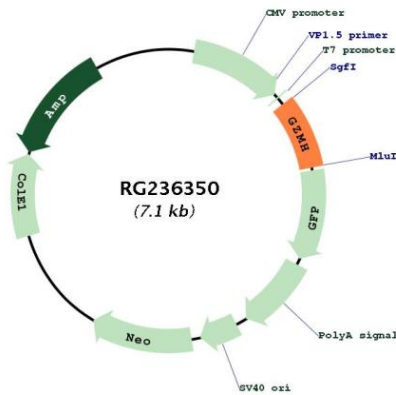
Cloning Scheme:


- ACCN:** NM_001270780
- ORF Size:** 546 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).
- RefSeq:** [NM_001270780.2](#)
- RefSeq Size:** 795 bp
- RefSeq ORF:** 549 bp
- Locus ID:** 2999
- Cytogenetics:** 14q12
- Protein Families:** Druggable Genome, Protease
- MW:** 20.8 kDa

Gene Summary:

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]

Product images:



Circular map for RG236350