

Product datasheet for **RG236263**

GNLY (NM_001302758) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNLY (NM_001302758) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GNLY
Synonyms: D2S69E; LAG-2; LAG2; NKG5; TLA519
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236263 representing NM_001302758.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTACCTGGGCCCTCCTGCTCCTTGACCCATGCTCCTGGGCAACCCAGGCCTTGAGGTCAGTGTG
AGCCCCAAGGGCAAGAACACTTCTGGAAGGAGAGTGGATTTGGCTGGGCCATCTGGATGGAAGTCTG
GTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAAGAGCCACCTGCGTGATGAGGAGAAATCC
TGCCCGTGCCTGGCCAGGAGGGCCCCAGGGTGACCTGTTGACCAAAACACAGGAGCTGGGCCGTGAC
TACAGGACCTGTCTGACGATAGTCCAAAACTGAAGAAGATGGTGGATAAGCCCACCCAGAGAAGTGT
TCCAATGCTGCGACCCGGGTGTGTAGGACGGGAGGTCACGATGGCGCGACGTCTGCAGAAATTTCATG
AGGAGGTATCAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAAACTGCCCAGCAGATCTGTGAGGAC
CTCAGGTTGTGTATACCTTCTACAGTCCCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236263
Blue=ORF Red=Cloning site Green=Tag(s)

```
MATWALLLLAAMLLGNPGLVSVSPKGNKTSGRESGFGWAIWMEGLVFSRLSPEYYDLARAHLRDEEKS
CPCLAQEGPQGDLLTKTQELGRDYRTCLTIVQKLKMKVDKPTQRSVSNAAATRVCRTRGRSRWRDVCRFM
RRYQSRVTQQLVAGETAQQICEDLRLCIPSTGPL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

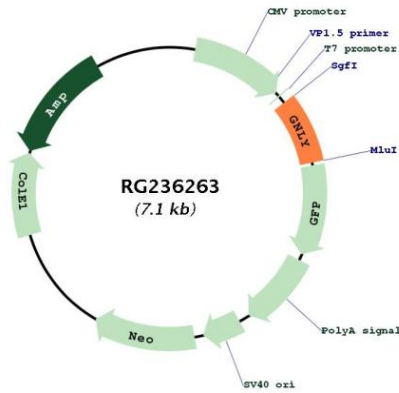


Cloning Scheme:


- ACCN:** NM_001302758
- ORF Size:** 516 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_001302758.2](#)
- RefSeq Size:** 924 bp
- RefSeq ORF:** 519 bp
- Locus ID:** 10578
- UniProt ID:** [P22749](#)
- Cytogenetics:** 2p11.2
- Protein Families:** Secreted Protein
- MW:** 19.7 kDa

Gene Summary:

The product of this gene is a member of the saposin-like protein (SAPLIP) family and is located in the cytotoxic granules of T cells, which are released upon antigen stimulation. This protein is present in cytotoxic granules of cytotoxic T lymphocytes and natural killer cells, and it has antimicrobial activity against *M. tuberculosis* and other organisms. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG236263