

Product datasheet for **RG204321**

GNLY (NM_006433) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNLY (NM_006433) 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: >RG204321 representing NM_006433
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACCTGGGCCCTCCTGCTCCTTGCAGCCATGCTCCTGGCAACCCAGGTCTGGTCTTCTCTCGTC
TGAGCCCTGAGTACTACGACCTGGCAAGAGCCACCTGCGTGATGAGGAGAAATCCTGCCGTGCCTGGC
CCAGGAGGGCCCCAGGGTGACCTGTTGACCAAAACACAGGAGCTGGCCGTGACTACAGGACCTGTCTG
ACGATAGTCCAAAACCTGAAGAAGTGGTGGATAAGCCACCCAGAGAAGTGTTCGAATGCTGCGACCC
GGGTGTGTAGGACGGGGAGGTACGATGGCGCGACGTCTGCAGAAATTCATGAGGAGGTATCAGTCTAG
AGTTACCCAGGGCCTCGTGGCCGAGAACTGCCAGCAGATCTGTGAGGACCTCAGGTTGTATACCT
TCTACAGGTCCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204321 representing NM_006433
Red=Cloning site Green=Tags(s)

MATWALLLLAAMLLGNPGLVFSRLSPEYYDLARAHLRDEEKSCPLAQEGPQGDLLTKTQELGRDYRTCL
TIVQKLLKMKVDKPTQRSVSNAATRVCRTGRSRWRDVCNFMRRYQSRVTQGLVAGETAQQICEDLRLCIP
STGPL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_006433

ORF Size: 435 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:

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_006433.5](#)

RefSeq Size: 738 bp

RefSeq ORF: 438 bp

Locus ID: 10578

UniProt ID: [P22749](#)

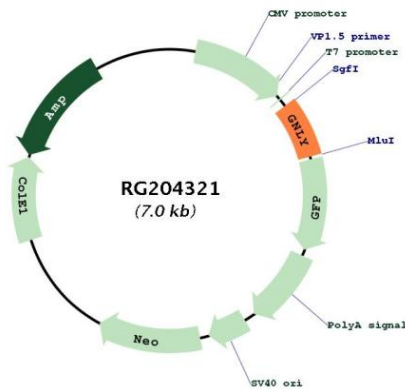
Cytogenetics: 2p11.2

Domains: SapB_2, SAPB

Protein Families: Secreted Protein

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 RG204321