

Product datasheet for **RG220369**

GNLY (NM_012483) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNLY (NM_012483) 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: >RG220369 representing NM_012483
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGAAGGTCTGGTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAAGAGCCCACCTGCGTGATG
AGGAGAAATCCTGCCGTGCCTGGCCCAGGAGGGCCCCAGGGTGACCTGTTGACCAAACACAGGAGCT
GGGCCGTGACTACAGGACCTGTCTGACGATAGTCCAAAACCTGAAGAAGATGGTGGATAAGCCCACCCAG
AGAAGTGTTCGAATGCTGCGACCCGGTGTGTAGGACGGGAGGTCACGATGGCGGACGTCTGCAGAA
ATTCATGAGGAGGTATCAGTCTAGAGTACCCAGGGCCTCGTGGCCGGAGAACTGCCACGAGATCTG
TGAGGACCTCAGGTTGTATACCTTCTACAGGTCCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220369 representing NM_012483
Red=Cloning site **Green**=Tags(s)

MEGLVFSRLSPEYYDLARAHLRDEEKSCPLAQEGPQGDLLTKTQELGRDYRTCLTIVQKLLKMKVDKPTQ
RSVSNAATRVCRTRGRSRWRDVCNFMRRYQSRVTQGLVAGETAQQICEDLRLCIPSTGPL

TRTRPLE - GFP Tag - V

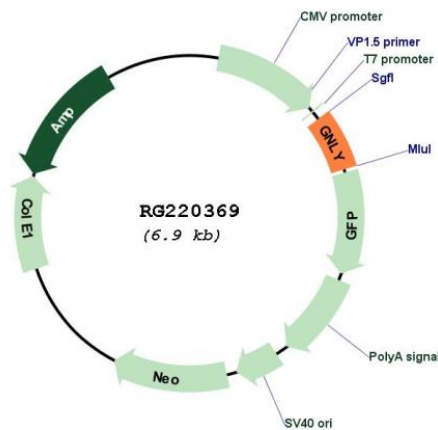
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN:

NM_012483

ORF Size:

390 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_012483.4
RefSeq Size:	995 bp
RefSeq ORF:	393 bp
Locus ID:	10578
UniProt ID:	P22749
Cytogenetics:	2p11.2
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 <i>M. tuberculosis</i> and other organisms. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]