

Product datasheet for **RC236263**

GNLY (NM_001302758) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GNLY (NM_001302758) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GNLY
Synonyms: D2S69E; LAG-2; LAG2; NKG5; TLA519
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236263 representing NM_001302758
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACCTGGGCCCTCTGCTCCTTGACCCATGCTCCTGGGCAACCCAGGCCTTGAGGTCAGTGTGA
GCCCCAAGGGCAAGAACACTTCTGGAAGGGAGAGTGGATTGGCTGGCCATCTGGATGGAAGGTCTGGT
CTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAAGAGCCACCTGCGTGATGAGGAGAAATCCTGC
CCGTGCCTGGCCAGGAGGGCCCCAGGGTGACCTGTTGACCAAAACACAGGAGCTGGGCCGTGACTACA
GGACCTGTCTGACGATAGTCCAAAACTGAAGAAGATGGTGGATAAGCCACCCAGAGAAGTGTTCCAA
TGCTGCGACCCGGGTGTGTAGGACGGGGAGGTCACGATGGCGCGACGTCTGCAGAAATTCATGAGGAGG
TATCAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAACTGCCCAGCAGATCTGTGAGGACCTCAGGT
TGTGTACCTTCTACAGGTCCCCTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236263 representing NM_001302758
Red=Cloning site Green=Tags(s)

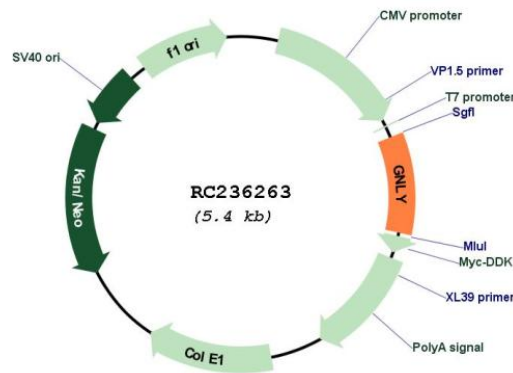
MATWALLLLAAMLLGNPGLVSVSPKGNKNTSGRESFGWAIWMEGLVFSRLSPEYYDLARAHLRDEEKSC
PCLAQEGPQGDLLTKTQELGRDYRTCLTIVQKLKMKVDKPTQRSVSNAATRVCRTGRSRWRDVCNFMRR
YQSRVTQGLVAGETAQQICEDLRLCIPSTGPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


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).
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_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 <i>M. tuberculosis</i> and other organisms. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]