

## Product datasheet for **SC116116**

### GNLY (NM\_006433) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GNLY (NM\_006433) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GNLY  
**Synonyms:** D2S69E; LAG-2; LAG2; NKG5; TLA519  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_006433 edited  
 ATGGCTACCTGGGCCCTCCTGCTCCTTGCAGCCATGCTCCTGGGCAACCCAGGTCTGGTC  
 TTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAAGAGCCACCTGCGTGATGAGGAG  
 AAATCCTGCCCGTGCCTGGCCCAGGAGGCCCCAGGGTGACCTGTTGACCAAAACACAG  
 GAGCTGGCCCGTACTACAGGACCTGTCTGACGATAGTCCAAAACTGAAGAAGATGGTG  
 GATAAGCCACCCAGAGAAGTGTTC AATGCTGCGACCCGGGTGTAGGACGGGGAGG  
 TCACGATGGCGGACGTCTGCAGAAATTCATGAGGAGGTATCAGTCTAGAGTTACCCAG  
 GGCCTCGTGGCCGGAGAACTGCCAGCAGATCTGTGAGGACCTCAGGTTGTGTATACCT  
 TCTACAGGTCCCCTCTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_006433 unedited  
 GTAACAACAGAATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGAGGCAT  
 CTCAGCGGCTGCCACCATGGTACTCTGGGCCCTCCTGCTCCTTGCAGCCATGCTCCTG  
 GGCAACCCAGGTCTGGTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAAGAGCC  
 CACCTGCGTGATGAGGAGAAATCCTGCCCGTGCCTGGCCCAGGAGGGCCCCAGGGTGAC  
 CTGTTGACCAAAACACAGGAGCTGGCCCGTACTACAGGACCTGTCTGACGATAGTCCAA  
 AACTGAAGAAGATGGTGATAAGCCCACCCAGAGAAGTGTTC AATGCTGCGACCCGG  
 GTGTGTAGGACGGGGAGGTCACGATGGCGGACGTCTGCAGAAATTCATGAGGAGGTAT  
 CAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAACTGCCAGCAGATCTGTGAGGAC  
 CTCAGGTTGTGTATACCTTCTACAGGTCCCCTCTGAGCCCTCTCACCTTGTCTGTGGAA  
 GAAGCACAGGCTCCTGTCCCTCAGATCCCGGGAACCTCAGCAACCTCTGCCGGCTCCTCGC  
 TTCTCGATCCAGAAATCCACTCTCCAGTCTCCCTCCCCTGACTCCCTCTGCTGTCCTCCC  
 CTCTCACGAGAATAAAGTGTCAAGCANGANAAAAAAAAAAAAAAAAAAAAAAAAAATCGAC  
 TCTAGATTGCGGCCGCGGTATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTG  
 ACCCTCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTG  
 TCCTAATAAAATTAAGTGCATCATTTTGTCTGACTAGGTGTCCTTCTATATATATGGGTG  
 AGGGGGGGGGG



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006433 unedited CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTGCTTGACA CTTTATTCTCGTGAGAGGGGAGGACAGCAAAGGGAGTCAGGGGAGGAACTGGAAAGTG GATTCTGGATCGAGGAACCGAGGACCCGGCAAAGGTTGCTGAGGTTCCCGGGATCTGAGG ACAGGAGCCTGTGCTTCTCCACAGGACAAGGTGAGAGGGCTCAAAGGGACCTGTAAAA GGTATACACAACCTGAGGTCCTCACAGATCTGCTGGGCAGTTTCTCCGGCCACGAGGCC TGGGTAACCTCTAAACTGATACCTCCTCATGAAATTTCTGCAAACGTCGCGCCATCGTGAC CTCCCCGTCCTACACACCCGGGTCGCAGCATTGGAACACTTCTCTGGGTGGGCTTATCC ACCATCTTCTTCAAGTTTTTGGACTATCGTCAAACAGGTCCTGCAGTCACGGCCCCACTCC TGTGTTTTGGTCAACAGGTCACCCTGGGGGCCCTCTGGGCCAGCCCCGGCCGTTTTCT CCCTCACACCCCCCGCGGGGCCCTTCCCCCTGTCCCCCTCCATTCTTCCCGATC TCCTCCCCCTCCCTCCACCCCGCCTTCCGCTCCCCCTCCCCCTCCTTTATTCTCCCT CCCCCTCTCCCTTCTCTACCACATTCCTTCCCCCTTCCCCCTTCCCCCCCCCGCCCAT TCTTTCACCCATTCTTTTCCCCCTTTTCTCCCTGTCCCCCCCCCCCCCCCCACTTCC ACCCCCGTCCTTCCCAGCACGCGCTCGCCACGCTCCCCCGCGCCCCCCCCCTC CGCCCCCTCCCTCCCCCCCCACCCCTCCCCCCCCCCCCCTCCCCCTCTCC CCCTTCCCTTCTTCCCCCCCCCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006433
<b>Insert Size:</b>	640 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_006433.2</a> , <a href="#">NP_006424.2</a>
<b>RefSeq Size:</b>	738 bp
<b>RefSeq ORF:</b>	438 bp
<b>Locus ID:</b>	10578
<b>UniProt ID:</b>	<a href="#">P22749</a>
<b>Cytogenetics:</b>	2p11.2
<b>Domains:</b>	SapB_2, SAPB
<b>Protein Families:</b>	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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' end compared to variant 1. The resulting isoform (2, also known as NKG5) is shorter compared to isoform 1.