

Product datasheet for **SC320763**

NGLY1 (NM_018297) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NGLY1 (NM_018297) Human Untagged Clone
Tag:	Tag Free
Symbol:	NGLY1
Synonyms:	CDDG; CDG1V; PNG-1; PNG1; PNGase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_018297.2
 GGAGAGCGAGGGGCGGGCGGGCGCCGCTGGCGCTCAAGCATGGCGGGCGGGCATTGG
 GCAGCTCCTCAGGCTCGGCGTCCCCGGCCGTGGCTGAGCTCTGCCAGAACACCCCGGAGA
 CCTTTTGGAGGCTCCAAGCTGCTGCTCACCTATGCTGACAACATCCTCAGAAACCTA
 ATGATGAAAAATATAGATCCATCCGATTGAAACACAGCCTTTTCTACTAGACTTTGC
 CTGTGAGAGGAGCTGTTGAATGTTTATTTGAAATGGGCTTTGAAGAGGGAGAAACACATC
 TCATCTTTCCTAAAAAGCTTCAGTGGAGCAGCTGCAAAAAATTCGTGACCTGATTGCCA
 TAGAGAGAAGTAGCAGACTGGATGGCTCAAATAAGAGCCACAAAGTAAAGTCATCTCAGC
 AACCTGCAGCCAGTACCCAGCTTCTACAAACCATCTTCAAATCCCAGTGGGTTAAACC
 AGCACACAAGGAACCGTCAAGGGCAGTCATCAGATCCACCATCTGCTTCAACGGTTGCTG
 CTGACTCAGCCATTCTAGAAGTTCTTCAAGTCCACATTGAGCATGTGCTGGTCTATGAAA
 ATCCTGCTCTTCAGGAGAAAGCGTTGGCTTGTATTCCGGTCCAAGAACTAAAAAGGAAAT
 CACAAGAAAAGTTATCGAGAGCTAGAAAATTGGATAAAGGTATCAATATAAGTGATGAGG
 ATTTTCTTTTCTGGAGCTTTTGCAGTGGTTAAGGAAGAATTTTTCTACTGGGTGAATA
 ACGTTTTGTGCAGCAAAATGTGGTGGACAGACTAGGTCTAGAGATAGATCATTACTGCCCA
 GTGATGATGAGCTGAAGTGGGGTGCAAAGGAAGTGAAGATCATTACTGTGATGCCTGCC
 AGTTCAGCAATCGATTCCAAGATATAATAACCCTGAGAACTTTTGGAAACAAGATGTG
 GACGGTGTGGCGAGTGGGCCAATTGTTTTACACTGTGCTGCCGAGCTGTAGGGTTTGAAG
 CTCGCTATGTTTGGGATTACACAGACCATGTCTGGACAGAAGTCTATTCTCCTTCTCAGC
 AGCGGTGGCTGCACTGTGATGCATGTGAAGATGTCTGTGACAAGCCACTCTTTATGAAA
 TAGGATGGGGCAAGAAGCTTTCCATGTCATAGCATTTTCAAAGATGAGGTAGTTGATG
 TCACTTGGCGATATTCTGCAAACATGAAGAGGTGATTGCCAGAAGAATAAGGTTAAAG
 AAGCATTACTTCGAGACACTATTAATGGGCTTAATAAGCAGAGGCAACTGTTTTTGTGAG
 AAAACAGAAGGAAAGAAGCTTCTCCAGAGGATAATTGTGGAGCTTGTGAATTTATATCTC
 CAAAAACCCCTAAACCTGGAGAAGTGGGGGAAGAATATCTGGGTGAGTGGCTTGGAGAG
 TAGCCCGAGGTGAAATGGGTCTACAGAGAAAAGAAACCTTGTATTCCCTGTGAAAATG
 AGAAGATTTCTAAACAGCTCCACCTTTGTTACAATATTGTGAAAGATCGTTATGTTGAG
 TTTCAAATAACAATCAAACCATTTCTGGATGGGAGAAATGGCGTGTGAAAATGGAATCTA
 TATTCAGAAAAGTTGAAACAGACTGGCACATGGTATATTTGGCCCGAAAGGAAGGATCAT
 CTTTTGCTTATATTTCTGGAAGTTTGTGAGTGGGTGAGTTGGCCTAAAAGTAGATAGCA
 TTTCTATTAGAACAAGTAGTCAAACCTTTTCAGACTGGAACAGTAGAATGGAATTTGCGAT
 CTGATACAGCACAAAGTAGAACTGACAGGCGATAACAGTCTTCACTCCTATGCTGATTTTT
 CTGGTGCCACTGAAGTATTTTGGAAAGCAGAAATTAAGCAGAGGAGATGGTGTGTCGCTT
 GGCAACACACCCAGCTGTTTAGACAAAGCTTAAATGACCATGAAGAAAATTTGTTGGAGA
 TAATTATAAAATTCAGTGACCTTTGAGAACCTGAACATTATAGAAAAGCTGGCAATAATC
 AAGGACTTACTGAAGTAGTCTGTTGGTTGAGTGCATGCTTAGTTGGCAGTTACCACCTG
 TGCTAGCATATTTCTTTTGTAGCTATCCATCATGTAACCCTCATGAAAAATTATCTTTAT
 ACGTGGACTATAATAAATTTGAATTAACCTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_018297

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_018297.2](#), [NP_060767.2](#)

RefSeq Size: 2182 bp

RefSeq ORF: 1965 bp

Locus ID: 55768

UniProt ID: [Q96IV0](#)

Cytogenetics: 3p24.2

Domains: TGc, PUG, PAW

Gene Summary:

This gene encodes an enzyme that catalyzes hydrolysis of an N(4)-(acetyl-beta-D-glucosaminy) asparagine residue to N-acetyl-beta-D-glucosaminyamine and a peptide containing an aspartate residue. The encoded enzyme may play a role in the proteasome-mediated degradation of misfolded glycoproteins. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.