

## Product datasheet for **SC325196**

### NGLY1 (NM\_001145295) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NGLY1 (NM_001145295) Human Untagged Clone
Tag:	Tag Free
Symbol:	NGLY1
Synonyms:	CDDG; CDG1V; PNG-1; PNG1; PNGase
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001145295, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCGGCATTGGGCAGCTCCTCAGGCTCGGCGTCCCCGGCCGTGGCTGAGCTC
TGCCAGAACACCCCGGAGACCTTTTGGAGGCTCCAAGCTGCTGCTCACCTATGCTGAC
AACATCCTCAGAAACCCTAATGATGAAAAATATAGATCCATCCGGATTGGAAACACAGCC
TTTTCTACTAGACTCTTGCTGTGACAGGAGCTGTTGAATGTTTATTTGAAATGGGCTTT
GAAGAGGGAGAAACACATCTCATCTTTCCTAAAAAGCTTCAGTGGAGCAGCTGCAAAAA
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AAAGTAAAGTCATCTCAGCAACCTGCAGCCAGTACCCAGCTTCTACAACACCATCTTCA
AATCCCAGTGGGTAAACCAGCACACAAGGAACCGTCAAGGGCAGTCATCAGATCCACCA
TCTGCTTCAACGGTTGCTGCTGACTCAGCCATTCTAGAAGTTCTTCAGTCCAACATTCAG
CATGTGCTGGTCTATGAAAATCCTGCTCTTCAGGAGAAAGCGTTGGCTTGATTCCGGTC
CAAGAATAAAAGGAAATCACAAAGAAAAGTTATCGAGAGCTAGAAAATTGGATAAAGGT
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GATAGATCATTACTGCCAGTGATGATGAGCTGAAGTGGGTGCAAAGGAAGTGAAGAT
CATTACTGTGATGCTGCCAGTTCAGCAATCGATTCCCAAGATATAATAACCCTGAGAAA
CTTTTGGAAACAAGATGTGGACGGTGTGGCGAGTGGGCCAATTGTTTTACTGTGCTGC
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AGGCAACTGTTTTTGTGCAAAAACAGAAGGAAAGAACTTCTCCAGAGGATAATTGTGGAG
CTTGTTGAATTTATATCTCCAAAACCCCTAAACCTGGAGAAGTGGGGGAAGAATATCT
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TTTATTCCCTGTGAAAATGAGAAGATTTCTAAACAGCTCCACCTTTGTTACAATATTGTG
AAAGATCGTTATGTTTCGAGTTTCAAATAACAATCAAACCTTTCTGGATGGGAGAATGGC
GTGTGGAAAATGGAATCTATATTCAGAAAAGTTGAAACAGACTGGCACATGATAACAGTC
TTCCTCTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGGAAAGCAGAAAT

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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001145295
<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>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_001145295.1</a></u> , <u><a href="#">NP_001138767.1</a></u>
<b>RefSeq Size:</b>	2421 bp
<b>RefSeq ORF:</b>	1677 bp
<b>Locus ID:</b>	55768
<b>UniProt ID:</b>	<u><a href="#">Q96IV0</a></u>
<b>Cytogenetics:</b>	3p24.2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an exon in the 3' coding region, which results in a frameshift and an early stop codon compared to variant 1. The encoded isoform (4) is shorter and has a distinct C-terminus compared to 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.</p>