

Product datasheet for **RG227451**

NGLY1 (NM_001145295) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NGLY1 (NM_001145295) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NGLY1
Synonyms:	CDDG; CDG1V; PNG-1; PNG1; PNGase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227451 representing NM_001145295
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTTGAAGAGGGAGAAACACATCTCATCTTTCTAAAAAGCTTCAGTGGAGCAGCTGCAAAAA
 TTCGTGACCTGATTGCCATAGAGAGAAGTAGCAGACTGGATGGCTCAAATAAGAGCCACAAAGTAAAGTC
 ATCTCAGCAACCTGCAGCCAGTACCCAGCTTCTACAACACCATCTTCAAATCCCAGTGGGTTAAACAG
 CACACAAGGAACCGTCAAGGGCAGTCATCAGATCCACCATCTGCTTCAACGGTTGCTGCTGACTCAGCCA
 TTCTAGAAGTTCTTCAAGTCAACATTCAAGTGTGCTGGTCTATGAAAATCCTGCTTTCAGGAGAAAGC
 GTTGGCTTGATTCGGTCCAAGAACTAAAAAGGAAATCACAAGAAAAGTTATCGAGAGCTAGAAAATTG
 GATAAAGGTATCAATATAAGTATGAGGATTTCTTTTGTGGAGCTTTTGCAGTGGTTAAGGAAGAAT
 TTTTCTACTGGTGAATAACGTTTTGTGCAGCAAATGTGGTGGACAGACTAGGTCTAGAGATAGATCATT
 ACTGCCAGTGATGATGAGCTGAAGTGGGTGCAAGGAAGTGAAGATCATTACTGTGATGCCTGCCAG
 TTCAGCAATCGATTCCTCAAGATATAATAACCTGAGAACTTTTGGAAACAAGATGTGGACGGTGTGGCG
 AGTGGGCCAATTGTTTTACTGTGCTGCCGAGCTGTAGGGTTTGAAGCTCGCTATGTTTGGGATTACAC
 AGACCATGTCTGGACAGAAGTCTATTCTCTTCTCAGCAGCGGTGGCTGCACTGTGATGCATGTGAAGAT
 GTCTGTGACAAGCCACTCCTTTATGAAATAGGATGGGGCAAGAAGCTTTCCTATGTCATAGCATTTCAA
 AAGATGAGGTAGTTGATGTCCTTGGCGATATTCCTGCAAACATGAAGAGGTGATTGCCAGAAGAACTAA
 GGTTAAGAAGCATTACTTCGAGACACTATTAATGGGCTTAATAAGCAGAGGCAACTGTTTTTGTGAGAA
 AACAGAAGGAAAGAACTTCTCCAGAGGATAATGTGGAGCTTGTGAATTTATATCTCCAAAACCCCTA
 AACCTGGAGAACTTGGGGGAAGAATATCTGGGTCACTGGCTTGGAGAGTAGCCCGAGGTGAAATGGGTCT
 ACAGAGAAAAGAAACCTTGTATTCCCTGTGAAAATGAGAAGATTTCTAAACAGCTCCACCTTTGTAC
 AATATTGTGAAAGATCGTTATGTTTCGAGTTTCAAATAACAATCAAACATTTCTGGATGGGAGAATGGCG
 TGTGAAAATGGAATCTATATTCAGAAAAGTTGAAACAGACTGGCACATGATAACAGTCTTCACTCCTAT
 GCTGATTTTTCTGGTGCCACTGAAGTATTTTGAAGCAGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227451 representing NM_001145295
 Red=Cloning site Green=Tags(s)

MGFEEGETHLIFPKKASVEQLQKIRDLIAIERSRLDGSNKSHKVKSSQPPAASTQLPTTPSSNPSGLNQ
 HTRNRQGSDDPPSASTVAADSAILEVLQSNIQHVLVYENPALQEALACIPVQELKRKSQEKLSRARKL
 DKGINISDEDFLLLELLHWFKEEFFHWVNNVLCCKGGQTRSRDRSLLPSDELKWKAKEVEDHYCDACQ
 FSNRFPYNNPEKLLLETRCGRCEWANCFTLCCRAVGFARYVVDYTDHWVTEVYSPSQRWLHCDACED
 VCDKPLLYEIGWGKLSYVIAFSKDEVVDVTWRYSCHEEVIARRTKVKEALLRDTINGLNKQRQLFLSE
 NRRKELLQRIIVELVEFISPKTPKPGELGGRISGSVAWRVARGEMGLQRKETFIPCENEKISKQLHLCY
 NIVKDRYVRVSNNTISGWENGVMKESIFRKVETDWHMITVFTPMLIFLVPLKLFWKQN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001145295.1](#), [NP_001138767.1](#)

RefSeq Size: 2421 bp

RefSeq ORF: 1677 bp

Locus ID: 55768

UniProt ID: [Q96IV0](#)

Cytogenetics: 3p24.2

Gene Summary: This gene encodes an enzyme that catalyzes hydrolysis of an N(4)-(acetyl-beta-D-glucosaminyl) asparagine residue to N-acetyl-beta-D-glucosaminylamine 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]