

Product datasheet for **RG227404**

NGLY1 (NM_001145293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NGLY1 (NM_001145293) 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:

>RG227404 representing NM_001145293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGGCCATTGGGCAGCTCCTCAGGCTCGGCCGTCGCCGCGTGGCTGAGCTCTGCCAGAACA
 CCCCGGAGACCTTTTGGAGGCCTCCAAGCTGCTGCTCACCTATGCTGACAAACATCCTCAGAAACCCCTAA
 TGATGAAAAATATAGATCCATCCGGATTGGAAACACAGCCTTTTCTACTAGACTCTTGCCTGTCAGAGGA
 GCTGTTGAATGTTTATTTGAAATGGGCTTTGAAGAGGGAGAAACACATCTCATCTTCTAAAAAAGCTT
 CAGTGGAGCAGCTGCAAAAAATTCGTGACCTGATTGCCATAGAGAGAAGTAGCAGACTGGATGGCTCAAA
 TAAGAGCCACAAAGTAAAGTCATCTCAGCAACCTGCAGCCAGTACCCAGCTTCTACAACACCATCTTCA
 AATCCCAGTGGGTTAAACCAGCACACAAGGAACCGTCAAGGGCAGTCATCAGATCCACCATCTGCTTCAA
 CGGTTGCTGCTGACTCAGCCATTCTAGAAGTCTTCAGTCCAACATTAGCATGTGCTGGTCTATGAAAA
 TCCTGCTCTTCAGGAGAAAGCGTTGGCTTGTATTCGGTCCAAGAATAAAAAGGAAATCACAAGAAAAG
 TTATCGAGAGCTAGAAAAATTGGATAAAGGTATCAATATAAGTGATGAGGATTTCTTTTGGCTGGAGCTTT
 TGCACTGGTTAAGGAAGAATTTTTCACTGGGTGAATAACGTTTTGTGCAGCAAATGTGGTGGACAGAC
 TAGGTCTAGAGATAGATCATTACTGCCAGTGATGATGAGCTGAAGTGGGGTGCAAAGGAAGTGAAGAT
 CATTACTGTGATGCCTGCCAGTTCAGCAATCGATTCCCAAGATATAATAACCCTGAGAACTTTTGGAAA
 CAAGATGTGGACGGTGTGGCGAGTGGGCCAATTGTTTTACTGTGCTGCCGAGCTGTAGGGTTTGAAGC
 TCGCTATGTTTGGGATTACACAGAGTTACAGCGCACATTAAGCCTAAAAGTACCACGTTAAAGGAGATT
 GGAAAAACATTTTAAAGGATTTCAAAGAGACAGAAATTAATACAGGTAGTTGATGCTACTGGCGATATT
 CCTGCAACATGAAGAGGTGATTGCCAGAAGAACTAAGGTTAAAGAAGCATTACTCGAGACATATAA
 TGGGCTTAATAAGCAGAGGCAACTGTTTTTGTGCAAAAACAGAAGGAAAGAACTTCTCCAGAGGATAATT
 GTGGAGCTTGTGAATTTATATCTCCAAAACCCCTAAACCTGGAGAAGTTGGGGGAAGAATATCTGGGT
 CAGTGGCTTGGAGAGTAGCCGAGGTGAAATGGGTCTACAGAGAAAAGAAACCTTGTATTCCCTGTGA
 AAATGAGAAGATTTCTAAACAGCTCCACCTTGTACAATATTGTGAAAGATCGTTATGTTTCGAGTTTCA
 AATAACAATCAAACATTTCTGGATGGGAGAATGGCGTGTGAAATGGAATCTATATTCAGAAAAGTTG
 AACAGACTGGCACATGGTATATTTGGCCGAAAGGAAGGATCATCTTTGCTTATATTTCTGGAAGTT
 TGAGTGTGGGTCAGTTGGCCTAAAAGTAGATAGCATTCTATTAGAACAAGTAGTCAAATTTTCAGACT
 GGAACAGTAGAATGGAATTCGATCTGATACAGCACAAAGTAGAACTGACAGGCGATAACAGTCTTCACT
 CCTATGCTGATTTTCTGGTGCCACTGAAGTATTTTGAAGCAGAATTAAAGCAGAGGAGATGGTATGT
 CGCTTGGCAACACACCCAGCTGTTTAGACAAAGCTTAAATGACCATGAAGAAAATTTGTTGGAGATAATT
 ATAAAATTCAGTGACCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227404 representing NM_001145293
 Red=Cloning site Green=Tags(s)

MAAAALGSSSGSASPVAEELCQNPETFLEASKLLLTYADNILRNPDEKYRSIRIGNTAFSTRLLPVRG
 AVECLFEMGFEEGETHLIFPKASVEQLQKIRDLIAIERSRRLDGSNKSHKVKSSQPPAASTQLPTTPSS
 NPSGLNQHTRNRQGSDDPPSASTVAADSAILVLSQNIQHVLVYENPALQEALACIPVQELKRKSQEK
 LSRARKLDKGINISDEDLLELLHWFKEEFFHWVNNVLCCKGGQTRSRRSLLPDDELKWKAKEVED
 HYCDACQFSNRFPRYNNPEKLETRCGRCGEWANCFTLCCRAVGFERYVWDYTELQRTLCLKLTTLKEI
 GKTFLRISKRQKLIQVVDVTWRYSCHEEVIARRTKVKEALLRDTINGLNKQRQLFLSENRRKELLQRII
 VELVEFISPKTPKPGELGGRISGSVAWRVARGEMGLQRKETLFI PCENEKISKQLHL CYNIVKDRYVRVS
 NNNQTIISGWENGVMKESIFRKVETDWHMYYLARKEGSSFAYISWKFECSVGLKVDISISRTSSQTFQT
 GTVEWKLRSDTAQVELTGDNSLHYSADFSGATEVILEAELSRGDGDVAWQHTQLFRQSLNDHEENCLEII
 IKFSDL

TRTRPLE - GFP Tag - V

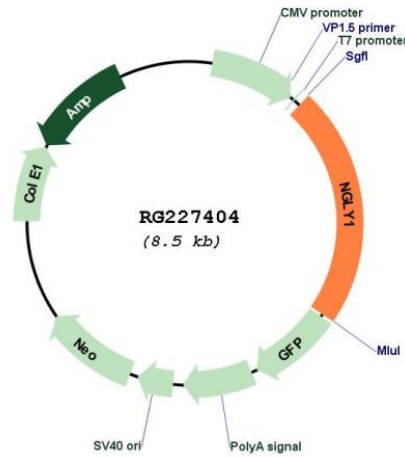
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001145293

ORF Size: 1908 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_001145293.1 , NP_001138765.1
RefSeq Size:	2545 bp
RefSeq ORF:	1911 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-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]