

Product datasheet for **RG203447**

NGLY1 (NM_018297) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NGLY1
Synonyms:	CDDG; CDGIV; PNG-I; PNG1; PNGase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203447 representing NM_018297
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCGGCGCATTGGGCAGCTCCTCAGGCTCGGCGTCCCCGGCCGTGGCTGAGCTCTGCCAGAACA
 CCCCAGGAGACCTTTTGGAGGCCTCCAAGCTGCTGCTCACCTATGCTGACAACATCCTCAGAAACCCCTAA
 TGATGAAAAATATAGATCCATCCGGATTGGAAACACAGCCTTTTCTACTAGACTCTTGCTGTGAGGGA
 GCTGTTGAATGTTTATTGAAATGGGCTTTGAAGAGGGAGAAACACATCTCATCTTTCTAAAAAAGCTT
 CAGTGGAGCAGCTGCAAAAAATTCGTGACCTGATTGCCATAGAGAGAAGTAGCAGACTGGATGGCTCAAA
 TAAGAGCCACAAAGTAAAGTCATCTCAGCAACCTGCAGCCAGTACCCAGCTTCTACAACACCCTCTTCA
 AATCCCACTGGGTAAACCAGCACACAAGGAACCGTCAAGGGCAGTCATCAGATCCACCCTCTGCTTCAA
 CGGTTGCTGCTGACTCAGCCATTCTAGAAGTTCTTCAGTCCAACATTTCAGCATGTGCTGCTATGAAAA
 TCCTGCTCTTCAGGAGAAAGCGTTGGCTTGATTCCGGTCCAAGAACTAAAAAGGAAATCACAAGAAAAG
 TTATCGAGAGCTAGAAAAATTGGATAAAGGTATCAATATAAGTGATGAGGATTTCTTTTGCTGGAGCTTT
 TGCACCTGGTTTAAAGGAAGATTTTTCCTGAGTGAATAACGTTTGTGTCAGCAAAATGTGGTGGACAGAC
 TAGGCTAGAGATAGATCATTACTGCCCAGTGATGATGAGCTGAAGTGGGTGCAAAGGAAGTGGAGAT
 CATTACTGTGATGCCTGCCAGTTAGCAATCGATTCCAAGATATAATAACCTGAGAACTTTTGGAAA
 CAAGATGTGGACGGTGTGGCAGTGGGCCAATTGTTTACACTGTGCTGCCGAGCTGTAGGGTTTGAAGC
 TCGCTATGTTTGGATTACACAGACCATGTCTGGACAGAACTATTCTCCTTCTCAGCAGCGGTGGCTG
 CACTGTGATGCATGTGAAGATGTCTGTGACAAGCCACTCCTTTATGAAATAGGATGGGGCAAGAAGCTTT
 CCTATGTCATAGCATTTCAAAAGATGAGGTAGTTGATGTCACCTGGCGATATTCCTGCAACATGAAGA
 GGTGATTGCCAGAAGAACTAAGGTTAAAGAAGCATTACTTCGAGACACTATAATGGGCTTAATAAGCAG
 AGGCAACTGTTTTGTGCAAAAACAGAAGGAAAGAACTTCTCCAGAGGATAATTGTGGAGCTTGTGAAT
 TTATATCTCCAAAACCCCTAAACCTGGAGAAGTGGGGGAAGAATATCTGGGTGAGTGGCTTGGAGAGT
 AGCCCCAGGTGAAATGGGTCTACAGAGAAAAGAAACCTTGTATTCCCTGTGAAATGAGAAGATTCT
 AAACAGCTCCACCTTTGTTACAATATTGTGAAAGATCGTTATGTTGAGTTTCAAATAACAATCAAACCA
 TTTCTGGATGGGAGAATGGCGTGTGAAAAATGGAATCTATATTGAAAAAGTTGAAACAGACTGGCACAT
 GGTATATTTGGCCGAAAGGAAGGATCATCTTTGCTTATTTCTGGAAGTTTGAAGTGGGTGAGTT
 GGCCTAAAAGTAGATAGCATTCTATTAGAACAAGTAGTCAAACCTTTTCAGACTGGAACAGTAGAATGGA
 AATTGGCATCTGATACAGCACAAAGTAGAAGTACAGGCGGATAACAGTCTTCACTCCTATGCTGATTTTC
 TGGTGGCACTGAAGTTATTTTGAAGCAGAATTAAGCAGAGGAGATGGTGTGCTTGGCAACACACC
 CAGCTGTTTAGACAAAGCTTAAATGACCATGAAGAAAATTGTTTGGAGATAATTATAAAATTCAGTGACC
 TT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203447 representing NM_018297
 Red=Cloning site Green=Tags(s)

MAAAALGSSSGSASPVAELCQNTPETFLEASKLLTYADNILRNPNDKYSIRIGNTAFSTRLLPVRG
 AVECLFEMGFEEGETHLIFPKKASVEQLQKIRDLIAIERSSRLDGSNKS HKVSSQQAAS TQLPTTPSS
 NPSSLNQHTRNRQGSDDPPSASTVAADSAILEVLQSNIQHVLVYENPALQEKALACIPVQELKRKSQEK
 LSRARKLDKGINISDEDFLLLELLHWFKEEFHFWNNVLCSKCGGQTRS RDRSLLPSDDELKWGAKEVED
 HYCDACQFSNRFPRYNPEKLLLETRCGRCEWANCFTLCRAVGFEARYVWDYTDHVWTEVYSPSQRWL
 HCDACEDVCDKPLLYEIGWGKLSYVIAFSKDEVVDVTWRYSCHEEVIARRTKVKEALLRDTINGLNKQ
 RQLFLSENRKELLQRIIVELVEFISPKTPKPGELGGRISGSVAWRVARGEMGLQRKETLIPCENKIS
 KQLHLKYNIVKDRYVRVSNNTQISGWENGWKMESIFRKVETDWHMVYLARKEGSSFAIYSWKFECSV
 GLKVDNISIRTSSQTFQTGTVEWKLRSDTAQVELTGDNSLHSHYADFSGATEVILEAELSRGDGDVAWQHT
 QLFQRQSLNDHEENCLEIIKFS DL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018297

ORF Size: 1962 bp

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.

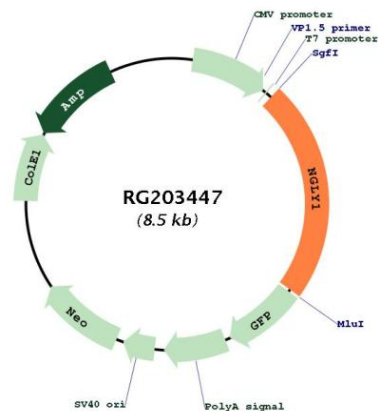
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_018297.4</u>
RefSeq Size:	2182 bp
RefSeq ORF:	1965 bp
Locus ID:	55768
UniProt ID:	<u>Q96IV0</u>
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]

Product images:



Circular map for RG203447