

## Product datasheet for **RN207395**

### **Ngly1 (NM\_001014136) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ngly1 (NM_001014136) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ngly1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN207395 representing NM\_001014136  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGTCGGCCACACTGGGCAGCTCGTCGAGCTCTGCGTCTCCGGCCGTGGCCGAGTTATGCCAGAACA  
 CCCCGGAGACCTTTCTGGAGGCCTCCAAGCTGCTGCTCACCTACGCCACAACATCCTGAGAAACCCAG  
 TGATGAAAAATACAGATCCATCCGCATTGGAAACACAGCCTTTTCTACTAGACTCTTGCCTGTCAGAGGA  
 GCTGTTGAGTGTTATTTGAAATGGGCTTTGAAGAGGGAGAAACACACCTTATCTTTCTAAAAAAGCTT  
 CAGTGGAAACAGCTTCAGAAAATCCGTGACCTGATTGCTGTAGAGAGAAGGAGCAGACTGGATGGATCAAG  
 TCAGAAGTGAGTTCTCTCAGCACCTGCTGCTGTCAGGCTTCTGCCGAGCAGCTGAGGATCTTACA  
 GGATTAATGCAGCACTCAGGAAACCACTGGGCAGCCGCTGAGCCTACCCTCTGCTCCACTGGTTGTTG  
 GTGATTCAACCATCTTTAAAGTTCTTCAGTCCAACATTCAGCACGTGCAGCTCTATGAAAATCCTGTCT  
 CCAGGAGAAAGCCTTGGCTTGTATCCAGTCAATGAACTCAAAGAAAATCTCAAGAAAACTATTGAGA  
 GCTAGAAAAGTTAGATAAAGGTAATAAGTAAGTATGAGGATTTCTTCTACTGGAGCTCTACACTGGT  
 TTAAGAGGAGTTTTTCCACTGGTGAATAACGTTGTGTGCAGCAGATGTGGCAGAGAGACTAGATCTAG  
 AGATGAGGCCCTTCCGCCCAATGATGATGAGCTGAAGTGGGGCGCCAAGAATGTGGAGGATCATTACTGT  
 GATGCCTGCCAGTTGAGCAACCGCTTCCAAGATATAACAACCCAGAGAACTTTTGGAAACAAGATGTG  
 GACGCTGTGGTGAATGGGCAATGTTTTACGCTATGCTGCCGTGCATTAGGGTTGAAGCTCGATATGT  
 GTGGGATTACACAGACCATGTTTGGACAGAAGTCTATTCTCCATCTCAGCAGCGGTGGTGCATTGTGAT  
 GCATGTGAGGATGTCTGCGACAAACCTCTTTTATGAAATAGGATGGGAAAGAAGCTCTCCTATATCA  
 TAGCATTCTCTAAAGATGAGGTGGTTGACGTACCTGGAGATACTTTGTAACATGAAGAGGTGATGTC  
 CAGGAGAAACCAAGTCAAGAAGAGTTACTTAGAGAACTATCAATGGGCTTAATAAGCAGAGACAGCTA  
 TTATTATCAGAAAAGCAGAAAGAAAAGAACTTCTCCAGAGGATAATTGTGGAGCTTGTGAATTTATATCTC  
 CAAAACCCCGACCTGGAGAATTGGTGAAGGGTATCTGGGTATTGGCTTGGAGAGTGGCCCGAGG  
 TGAGACGTGTCTGGAGAGAAAGGAGATTCTGTTTCCCTTCTGAAAATGAAAAGATTTCTAAGCAATTC  
 CACCTCCGTTATGATATTGTGAGAGATCGTTACATCCGTGTCTCAGACAACATGCAAACATTTCTGGAT  
 GGGAGAACGGTGTGTGAAAATGGAATCCATATTCAGAAAGGTTGAGAAAGACTGGAACATGGTTTTATT  
 GGCCCGAAAAGAAGGATCATCTTTGCTTATATTTCTGGAAGTTTGAATGTGGGTGAGTGGTCTAAAG  
 GTGGATAACGTTTCCATCCGGACGAGTAGCCAAAGCTTTGAGACTGGATCAGTGAGGTGGAACCTCGCT  
 CTGAGATGGCTCAAGTCAACCTGCTGGGAGGTAGTCCAGACAGAAATCTGCGTTCTATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001014136
- Insert Size:** 1812 bp
- OTI Disclaimer:** 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).
- 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\\_001014136.1](#), [NP\\_001014158.1](#)

**RefSeq Size:** 2234 bp

**RefSeq ORF:** 1812 bp

**Locus ID:** 361014

**UniProt ID:** [Q5XI55](#)

**Cytogenetics:** 15p16

**Gene Summary:** Specifically deglycosylates the denatured form of N-linked glycoproteins in the cytoplasm and assists their proteasome-mediated degradation. Cleaves the beta-aspartyl-glucosamine (GlcNAc) of the glycan and the amide side chain of Asn, converting Asn to Asp. Prefers proteins containing high-mannose over those bearing complex type oligosaccharides. Can recognize misfolded proteins in the endoplasmic reticulum that are exported to the cytosol to be destroyed and deglycosylate them, while it has no activity toward native proteins. Deglycosylation is a prerequisite for subsequent proteasome-mediated degradation of some, but not all, misfolded glycoproteins (By similarity).[UniProtKB/Swiss-Prot Function]