

Product datasheet for **RR207395**

Ngly1 (NM_001014136) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR207395 representing NM_001014136
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTCGGCCACACTGGGCAGCTCGTCGAGCTCTGCGTCTCCGGCCGTGGCCGAGTTATGCCAGAACA
 CCCCGGAGACCTTCTGGAGGCCTCCAAGCTGCTGCTCACCTACGCCGACAAACATCCTGAGAAACCCAG
 TGATGAAAAATACAGATCCATCCGATTGGAAACACAGCCTTTTCTACTAGACTCTTGCCTGTCAGAGGA
 GCTGTTGAGTGTTATTTGAAATGGGCTTTGAAGAGGGAGAAACACACCTTATCTTTCTAAAAAAGCTT
 CAGTGGAAACAGCTTCAGAAAATCCGTGACCTGATTGCTGTAGAGAGAAGGAGCAGACTGGATGGATCAAG
 TCAGAAGTGGAGTTCTCTCAGCACCTGCTGCTGTAGGCTTCTGCCGAGCAGCTGAGGATCTTACA
 GGATTAATGCAGCACTCAGGAAACCACTGGGCAGCCGCTGAGCCTACCCTCTGCTCCACTGGTTGTTG
 GTGATTCAACCATCTTTAAAGTTCTTCAGTCCAACATTCAGCACGTGCAGCTCTATGAAAATCCTGTCT
 CCAGGAGAAAGCCTTGGCTTGTATCCAGTCAATGAACTCAAAGAAAATCTCAAGAAAACTATTGAGA
 GCTAGAAAAGTTAGATAAAGGTAATAAGTAAGTATGAGGATTTCTTCTACTGGAGCTCTACACTGGT
 TTAAGAGGAGTTTTTCCACTGGTGAATAACGTTGTGTGCAGCAGATGTGGCAGAGAGACTAGATCTAG
 AGATGAGGCCCTTCCGCCCAATGATGATGAGCTGAAGTGGGGCGCCAAGAATGTGGAGGATCATTACTGT
 GATGCCTGCCAGTTGAGCAACCGCTTCCAAGATATAACAACCCAGAGAAAATTTTGGAAACAAGATGTG
 GACGCTGTGGTGAATGGGCAATGTTTTACGCTATGCTGCCGTGCATTAGGTTTGAAGCTCGATATGT
 GTGGGATTACACAGACCATGTTTGGACAGAAGTCTATTCTCCATCTCAGCAGCGGTGGTGCATTGTGAT
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 CACCTCCGTTATGATATTGTGAGAGATCGTTACATCCGTGTCTCAGACAACATGCAAACATTTCTGGAT
 GGGAGAACGGTGTGTGAAAATGGAATCCATATTCAGAAAGGTTGAGAAAGACTGGAACATGGTTTTATT
 GGCCCGAAAAGAAGGATCATCTTTGCTTATATTTCTGGAAGTTTGAATGTGGGTGAGTGGTCTAAAG
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 CTGAGATGGCTCAAGTCAACCTGCTGGGAGGTAGGTCCAGACAGAAATCTGCGTTCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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MASATLGSSSSASPAVAELCQNTPETFLEASKLLLYADNILRNPSDEKYRSIRIGNTAFSTRLLPVRG
 AVECLFEMGFEEGETHLIFPKKASVEQLQKIRDLIAVERRSRLDGSSQKVEFSQHPAAVRLPAEQPEDPT
 GLMQHSGNQPGQPLSLPSAPLVVGDSTIFKVLQSNIQHVQLYENPVLQEKALACIPVNELKRKSQEKLF
 ARKLDKGTKVSDDFLLLELLHWFKEEFFHWVNNVCSRGRRETRSRDEALPPNDELKWGAKNVEDHYC
 DACQLSNRFPYNNPEKLLLETRCGRCGEWANCFTLCCRALGFEARVWDYTDHVWTEVYSPSQQRWLHCD
 ACEDVCDKPLLIEIGWGKLSYIIAFSKDEVVDVTWRYSCHEEVMSRRTKVKEELLRETINLNRQRQL
 LLSERRKELLQRIIVELVEFISPKTPRPGELGGRVSGSLAWRVARGETCLERKEILFIPSENEKISKQF
 HLRYDIVRDRYIRVSDNNANISGWENGWVKMESIFRKEKVDNMMVYLARKEGSSFAYISWKEFGCSAGLK
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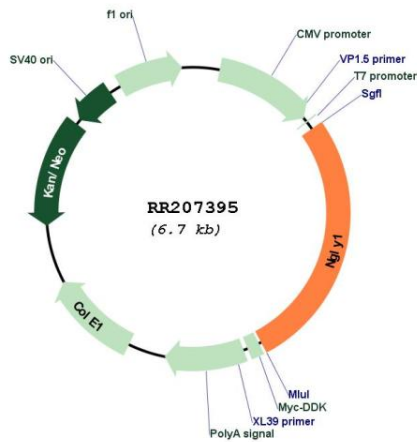
Restriction Sites:

SgfI-MluI

MW: 69.2 kDa

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]

Product images:



Circular map for RR207395