

## Product datasheet for MR226903

### Neu1 (NM\_010893) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neu1 (NM_010893) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neu1
Synonyms:	AA407268; AA407316; Aglp; Apl; Bat-7; Bat7; G9; Map-2; Neu; Neu-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226903 representing NM_010893 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGGGCAGACCCGACCAGACCCCGGGACCGCTGAGCTATTGGCGGGCCGTCGGGGTCAGGGC  
TCGCAGCGATCTCCTGCTCCTGGTGTCCGCGCGGAATCCGAGGCCAGGGCAGAGGATGACTTCAGCCT  
GGTGCAGCCGCTGGTACCATGGAGCAGCTGCTGTGGGTGAGCGGAAGCAGATCGGCTCTGTAGACT  
TTCCGCATCCCGCTCATCACAGCCACCCCTCGGGCAGCTCCTGGCCTTCGCTGAGGCCAGAAAAAT  
CTGCATCCGATGAGGGGGCAAGTTCATCGCCATGAGGAGGTCCACGGACCAGGGTAGCACGTGGTCCTC  
TACAGCCTTCATCGTAGACGATGGGGAGCCTCCGATGGCTGAACCTGGGCGCTGTGGTGAACGATGTA  
GACACAGGGATAGTGTTCCTTATCTATACCCCTCTGTGCTCACAAGGTCAACTGCCAGGTGGCCTCTACCA  
TGTTGGTGGAGTAAGGACGACGGCATTTCCTGGAGCCACCCCGGAATCTCTCTGTGGATATTGGCAC  
AGAGATGTTTGGCCCTGGACCTGGCTCAGGCATTCAGAAACAGCGGGAGCCTGGGAAGGGCCGGCTCATT  
GTGTGTGGACACGGGACGCTGGAGCGAGATGGGTCTTCTGTCTCCTCAGTGATGACCACGGTGCCTCCT  
GGCACTACGGCACTGGAGTGAGCGGCATTCCTTTGGCCAGCCAAACACGATCACGATTTCAACCCCGA  
CGAGTGCCAGCCCTACGAGCTTCCAGATGGCTCGGTATCATCAACGCCCGGAACCAATAACTACCAT  
TGCCGCTGCAGGATCGTCTCCGAGCTATGACGCCTGTGACACCCTCAGGCCCGGGATGTGACCTTCG  
ACCCTGAGCTCGTGGACCCTGTGGTAGCTGCAGGAGCACTAGCCACCAGCTCCGGCATTGTCTTCTCTC  
CAATCCAGCCACCCCTGAGTTCAGAGTGAACCTGACCCTGCGCTGGAGTTTCAGCAATGGTACATCCTGG  
CAGAAGGAGAGGGTCCAGGTGTGGCCGGGACCCAGCGGCTACTCGTCCCTGACAGCCCTGGAAAACAGCA  
CGGATGGAAGAAGCAGCCCGCAGCTGTTCTGTACGAGAAAGCCTGAACCGGTACACCGAGAG  
CATCTCCATGGTCAAATCAGCGTCTACGGCACGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR226903 representing NM\_010893  
Red=Cloning site Green=Tags(s)

MVGADPTRPRGPLSYWAGRRGQGLAAIFLLLVSAAESEARAEDDFSLVQPLVTMEQLLWVSGKQIGSVDT  
 FRIPLITATPRGTLLEAFEAARKKSASDEGAKFIAMRRSTDQGSTWSSTAFIVDDGEASDGLNLGAVVNDV  
 DTGIVFLIYTLCAHKVNCQVASTMLVWSKDDGISWSPRNLSDVIGTEMFAPGPGSGIQKQREPGKGRLLI  
 VCGHGTLERDGVFCLLSDDHGASWHYGTGVSGIPFGQPKHDHDFNPDECQPYELPDGSVIINARNQNNYH  
 CRCRIVLRSYDADCNTLRPRDVTDFPELVDPVVAAGALATSSGIVVFFSNPAHPEFRVNLTLRWSFSNGTWSW  
 QKERVQVWPGPSGYSSLTALENSTDGKKQPPQLFVLYEKGLNRYTESISMVKISVYGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9018\\_d09.zip](https://cdn.origene.com/chromatograms/mm9018_d09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010893

**ORF Size:** 1227 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:**

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\\_010893.3](#), [NP\\_035023.3](#)

**RefSeq Size:** 3850 bp

**RefSeq ORF:** 1230 bp

**Locus ID:** 18010

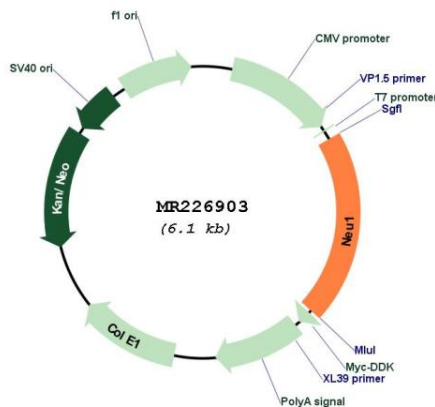
**UniProt ID:** [O35657](#)

**Cytogenetics:** 17 18.48 cM

**MW:** 45 kDa

**Gene Summary:** Catalyzes the removal of sialic acid (N-acetylneuraminic acid) moieties from glycoproteins and glycolipids. To be active, it is strictly dependent on its presence in the multienzyme complex. Appears to have a preference for alpha 2-3 and alpha 2-6 sialyl linkage.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226903