

Product datasheet for **MG226903**

Neu1 (NM_010893) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Neu1 (NM_010893) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Neu1
Synonyms: AA407268; AA407316; Aglp; Apl; Bat-7; Bat7; G9; Map-2; Neu; Neu-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226903 representing NM_010893
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGTGGGGCAGACCCGACCAGACCCCGGGACCGCTGAGCTATTGGCGGGCCGTCGGGGTCAGGGC
 TCGCAGCGATCTCCTGCTCCTGGTGTCCGCGCGGAATCCGAGGCCAGGGCAGAGGATGACTTCAGCCT
 GGTGCAGCCGCTGGTACCATGGAGCAGCTGCTGTGGGTGAGCGGAAGCAGATCGGCTCTGTAGACT
 TTCGCATCCCGCTCATCACAGCCACCCCTCGGGCAGCTCCTGGCCTTCGCTGAGGCCAGGAAAAAT
 CTGCATCCGATGAGGGGGCAAGTTCATCGCCATGAGGAGGTCCACGGACCAGGGTAGCACGTGGTCCTC
 TACAGCCTTCATCGTAGACGATGGGGAGCCTCCGATGGCCTGAACCTGGGCGCTGTGGTGAACGATGTA
 GACACAGGGATAGTGTTCCTTATCTATACCCCTCTGTGCTCACAAGGTCAACTGCCAGGTGGCCTCTACCA
 TGTGGTGGAGTAAGGACGACGGCATTCTCTGGAGCCACCCCGGAATCTCTCTGTGGATATTGGCAC
 AGAGATGTTTGGCCCTGGACCTGGCTCAGGCATTAGAAACAGCGGGAGCCTGGGAAGGGCCGGCTCATT
 GTGTGTGGACACGGGACGCTGGAGCGAGATGGGTCTTCTGTCTCCTCAGTGATGACCACGGTGCCTCCT
 GGCACTACGGCACTGGAGTGAGCGGCATTCCCTTTGGCCAGCCAAACACGATCACGATTCAACCCCGA
 CGAGTGCCAGCCCTACGAGCTTCCAGATGGCTCGGTATCATCAACGCCCGGAACCAATAACTACCAT
 TGCCCGTGCAGGATCGTCTCCGACGCTATGACGCCTGTGACACCCTCAGGCCCGGGATGTGACCTCG
 ACCCTGAGCTCGTGGACCCTGTGGTAGCTGCAGGAGCACTAGCCACCAGCTCCGGCATTGTCTTCTCTC
 CAATCCAGCCACCCCTGAGTTCAGAGTGAACCTGACCCCTGCGCTGGAGTTTCAGCAATGGTACATCCTGG
 CTGAAGGAGAGGGTCCAGGTGTGGCCGGGACCCAGCGGCTACTCGTCCCTGACAGCCCTGGAAAACAGCA
 CGGATGGAAGAAGCAGCCCGCAGCTGTTCTGTACGAGAAAGCCTGAACCGGTACACCGAGAG
 CATCTCCATGGTCAAATCAGCGTCTACGGCACGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226903 representing NM_010893
 Red=Cloning site Green=Tags(s)

```
MVGADPTRPRGPLSYWAGRRGQLAAIFLLLVSAAESEARAEDDFSLVQPLVTMEQLLWVSGKQIGSVDT
FRIP LITATPRGTL LAF AEARKK SASDEGAKFIAMRRSTDQGSTWSSTAFIVDDGEASDGLNLGAVVNDV
DTGIVFLIYTLCAHKVNCQVASTMLVWSKDDGISWSPRNLSDIGTEMFAPGPGSGIQKQREPGKGR LI
VCGHGTLERDGVFCLLSDDHGASWHYGTGVS GIPFGQPKHDHDFNPDECQPYELPDG SVIINARNQNNYH
CRCRIVLRSYDADCTLRPRDVTFDPELVDPVVAAGALATSSGIVFFSNPAHPEFRVNLTLRWSFSNGT SW
LKERVQWPGPSGYSSLTALENSTDGKKQPPQLFVLYEKGLNRYTESISMVKISVYGT L
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_010893.2](#)

RefSeq Size: 3850 bp

RefSeq ORF: 1230 bp

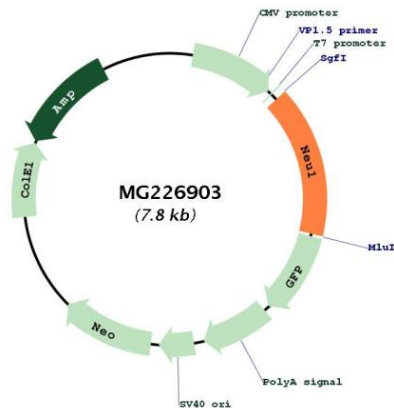
Locus ID: 18010

UniProt ID: [O35657](#)

Cytogenetics: 17 18.48 cM

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 MG226903