

Product datasheet for **RR205676**

Neu1 (NM_031522) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neu1 (NM_031522) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neu1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205676 representing NM_031522 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGGGCAGAGCCAAGCAGACCCCGGGACCACCGAGCTACTGGACAGGCCGGCGGGGTCAAGGGC
TCGCAGCGATCTTCCTGCTCCTGGTGTCGCGCGCGGGATCAGAGGCCAGGACAGAGGATGACTTCAGCCT
GGTGCAGCCGCTGGTGACCATGGAGCAATTGCTGTGGGTGAGCGGGAAGCAGATCGGCTCCGTAGACACT
TTTCGAATCCCGCTCATCACAGCCACCCCTCGGGGCACGCTCCTGGCCTTCGCTGAGGCTAGGAAAAAGT
CTGCATCCGATGAGGGGGCCAAGTTCATCGCTATGAGGAGGTCCACAGACCAGGGTAGCACGTGGTCCTC
TACGGCTTTTCATTGTAGACGACGGGGAGGCCTCCGATGGGCTGAACCTGGGGGCTGTGGTGAACGACGTA
GACACAGGAGTGTTCTCATCTATACCTCTGTGCTCACAAGGTCAACTGCCAGGTGGCCTCTACCA
TGCTGGTTTGAGTAAGGATGACGGCGTTTCTGGAGCCACCGCGAATCTCTCCGTGGATATTGGCAC
AGAGATGTTTGCCCTGGACCCGGCTCTGGCATTAGAAACAGCGGGAGCCTTGAAGGGCCGGCTCATT
GTGTGTGGACACGGGACGCTGGAGCGAGATGGGTCTTCTGTCTCCTCAGTGATGACCACGGTGCCTCCT
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CGAGTGCCAGCCCTACGAGCTTCAGACGGCTCAGTCATCATCAACGCCCGGAACAGAATAACTACCAC
TGCCGCTGCAGGATCGTCTCCGAGCTATGACGCTGTGACACCCTCAGGCCCCGGGATGTGACCTTCG
ACCCTGAGCTCGTGACCTGTGGTAGCTGCAGGAGCGTAGCCACCAGCTCCGGCATTGTCTTCTCTC
CAATCCAGCCCATCCCGAGTACCGAGTGAACCTGACCTGCGCTGGAGCTTCAGCAATGGACATCCTGG
CAGAAGGAGAGGGTCCAGTTGTGGCCGGGACCCAGCGGCTACTCATCCCTGACAGCCCTGGAAAACAGCA
CGGACGGGAAGAAGCAGCCCCCGCAGCTGTTCTGTCTGTACGAGAAAGGACTGAACCGGTACACGGAGAG
CATCTCCATGGTCAAAATCAGCGTCTACGGCACGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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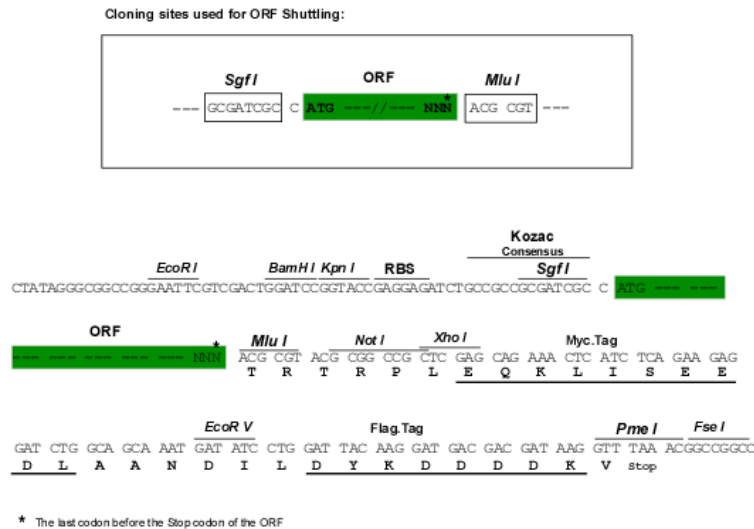
Protein Sequence: >RR205676 representing NM_031522
 Red=Cloning site Green=Tags(s)

MVGAEPSRPPGPPSYWTGRRGQGLAAIFLLLVSAGSEARTEDDFSLVQPLVTMEQLLWVSGKQIGSVDT
 FRIPLITATPRGTLLAFEAARKKSASDEGAKFIAMRRSTDQGSTWSSTAFIVDDGEASDGLNLGAVVNDV
 DTGVVFLIYTLCAHKVNCQVASTMLVWSKDDGVSWSPRNLSDVIGTEMFAPGPGSGIQKQREPWKGRLI
 VCGHGTLERDGVFCLLSDDHGASWHYGTGVSGIPFGQPKHDHDFNPDECQPYELPDGSVIINARNQNNYH
 CRCRIVLRSYDADTLRPRDVTFDPELVDPVVAAGALATSSGIVFFSNPAHPEYRVNLTLRWSFSNGTSW
 QKERVQLWPGPSGYSSLTALENSTDGKKQPPQLFVLYEKGLNRYTESISMVKISVYGTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031522

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_031522.3, NP_113710.2

RefSeq Size: 1931 bp

RefSeq ORF: 1230 bp

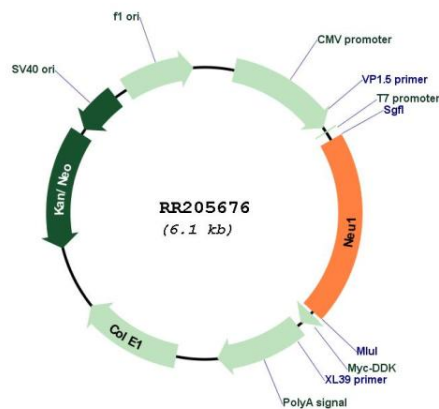
Locus ID: 24591

Cytogenetics: 20p12

MW: 44.6 kDa

Gene Summary: enzyme that cleaves sialic acid from glycoproteins and glycolipids [RGD, Feb 2006]

Product images:



Circular map for RR205676