

Product datasheet for **MC216565**

Neu4 (NM_173772) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neu4 (NM_173772) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Neu4
Synonyms:	9330166I04
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216565 representing NM_173772
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCACGGTGTGCCAGGAGAACGGTGTCTTCCAGAGGAAAGGACGGGCCTGACCTACCGTG
 TGCTGCGTTACTCTGTGTGCCTCCAGGCCTACTCTGCTGGCCTTCGCGGAACAGCGACTTAGCCCTGA
 TGACTCCCATGCCACCCCTGGTGTACGGAGGGGCACGCTGACCAGGGGCTCAGTGCGGTGGGCACT
 CTGAGTGTACTGGAGACTGCAGTACTGGAGGAGCACAGGTCTATGAACCTTGCCCGGTGCTGGATGAGC
 ACTCTGGTACCATCTTCCTTTCTTTCATTGCCGTGCTGGGCCACACACCGGAGGCCGTGCAAATCGCCAC
 TGGCAAGAACGCTGCTCGCCTCTGCTGTGTGACCAGCTGTGACGCTGGCCTCACCTGGGGCAGTGTTCGA
 GATCTCACTGAGGAAGCCATTGGTGTGCATTGCAGGACTGGGCCACCTTGTGTGGTCCGGGCCATG
 GAGTTCAGCTGCGCTCGGTGCGCTGCTTGTTCCTGCTTACACCTATCATGTGGACCGACGGGAATGTTT
 TGGCAAGATCTGTGGACCAGTCCCACTCCTTGGCATTCTACAGTGATGATCATGGGATCTCCTGGCAT
 TGTGGAGGCCTTGTGCCAACCTACGCTCTGGAGAGTGCCAACCTGGCTGCGGTAGATGGAGACTTCTCT
 ACTGTAATGCTCGAAGCCCTCTGGGTAACCGTGTGCAGGCACTGAGTGTGATGAAGGCACGTCCTTCT
 ACCAGGGGAGCTGGTGCCTACATTGGCAGAGACGGCTCGTGGTGGCAGGGTAGCATTGTGGGCTTCCCTA
 GCTCCACCCTCAATCGAGCCTCAGGATGACCGGTGGACAGGGAGTCCTAGGAACACCCACATCCCCAT
 GCTTCAATCTCAGAGTACAGGAGTCTTCGGGGGAAGGTGCCAGAGGTCTTCTTGAACGTTGGATGCCAG
 GTTGCCTCTGCTACCCACAGTCCCGGAGCCAGAGAATCATGGCCTAGAGCCTGGGTCAGATGGAGAT
 AAGCATCCTGGACTCCGGAATGTCTATGTCTCTGATTCCATGCTTCAGAGCCCCACATGGCTACTAT
 ATCCCACCCAGCAGGGCGTAGAGCTCGGCTCCACATGGGAATCTACCTGAGCCGATCCCCCTGGATCC
 CCACAGCTGGACAGAGCCCTGGGTGATCTATGAGGGCCCCAGTGGCTACTCTGACCTTGCCTTTCTTGGG
 CCTATGCCTGGGCATCCCTGGTTTTTGCCTGTCTGTTTGAGAGCGGGACCAGGACTTCTATGAAGACA
 TTTCTTTTGTGTTCTCACTGGCGGATGTCTGGAGAATGTGCCCACTGGCTTAGAGATGCTAAGTCT
 CAGGGATAAGGCTCAGGGCATTGCTGGCCCTCT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3299_b07.zip

Restriction Sites: SgfI-RsrII

ACCN: NM_173772

Insert Size: 1437 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: [BC070438](#), [AAH70438](#)

RefSeq Size: 4524 bp

RefSeq ORF: 1437 bp

Locus ID: 241159

UniProt ID: [Q8BZL1](#)

Cytogenetics: 1 D

Gene Summary: May function in lysosomal catabolism of sialylated glycoconjugates. Has sialidase activity towards synthetic substrates, such as 2'-(4-methylumbelliferyl)-alpha-D-N-acetylneuraminic acid (4-MU-NANA or 4MU-NeuAc). Has a broad substrate specificity being active on glycoproteins, oligosaccharides and sialylated glycolipids (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate exon compared to variant 1, which causes translation initiation at a downstream AUG. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.