

## Product datasheet for **MR207670**

### Neu4 (NM\_173772) Mouse Tagged ORF Clone

#### Product data:

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR207670 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGCCCACGCGTGTCCAGGAGAACGGTGTCTTCCAGAGGAAAGGACGGGCCTGACCTACCGTG  
 TGCCTGCGTTACTCTGTGTGCCCTCCAGGCCTACTCTGCTGGCCTTCGCGGAACAGCGACTTAGCCCTGA  
 TGACTCCCATGCCACCCTGGTGTACGGAGGGCACGCTGACCAGGGGCTCAGTGGGTGGGCACT  
 CTGAGTGTACTGGAGACTGCAGTACTGGAGGACACAGGTCTATGAACCCTTGCCCGGTGCTGGATGAGC  
 ACTCTGGTACCATCTTCTCTTCTTATTGCCGTGCTGGGCCACACACCGGAGGCCGTGCAAATCGCCAC  
 TGGCAAGAACGCTGCTCGCTCTGCTGTGTGACCAGCTGTGACGCTGGCCTCACCTGGGGCAGTGTTCGA  
 GATCTCACTGAGGAAGCCATTGGTGTGCATTGCAGGACTGGGCCACCTTTGCTGTGGTCCGGGCCATG  
 GAGTTCAGCTGCGCTCGGTGCGCTGCTTGTCTGCTTACACCTATCATGTGGACCGACGGGAATGTTT  
 TGGCAAGATCTGCTGGACAGTCCCACTCCTTGGCATTCTACAGTGATGATCATGGGATCTCCTGGCAT  
 TGTGGAGGCCTTGTGCCAACCTACGCTCTGGAGAGTGCCAACCTGGCTGCGGTAGATGGAGACTTCTCT  
 ACTGTAATGCTCGAAGCCCTCTGGGTAACCGTGTGCAGGCACTGAGTGTGATGAAGGCACGTCCTTCT  
 ACCAGGGGAGCTGGTGCCTACATTGGCAGAGACGGCTCGTGGTGGCAGGGTAGCATTGTGGGCTTCTTA  
 GCTCCACCCTCAATCGAGCCTCAGGATGACCGTGGACAGGGAGTCTAGGAACACCCACATCCCCAT  
 GCTTCAATCTCAGAGTACAGGAGTCTTCGGGGGAAGGTGCCAGAGGTCTTCTTGAACGTTGGATGCCAG  
 GTTGCCTCTGCTACCCACAGTCCCGGAGCCAGAGAATCATGGCCTAGAGCCTGGGTGAGATGGAGAT  
 AAGACATCCTGGACTCCGGAATGCTATGCTCTGATTCCATGCTTCAGAGCCACATGGCTACTAT  
 ATTCCCACCCAGCAGGGCGTAGAGCTCGGCTCCACATGGGAATCTACCTGAGCCGATCCCCCTGGATCC  
 CCACAGCTGGACAGACCCTGGGTGATCTATGAGGGCCCCAGTGGCTACTCTGACCTTGCCTTCTTGGG  
 CCTATGCTGGGGCATCCTGGTTTTGCTGTCTGTTTGGAGAGCGGGACCAGGACTTCTATGAAGACA  
 TTTCTTTTGGTGTCTCACTGGCGGATGCTCTGGAGAATGTGCCCACTGGCTTAGAGATGCTAAGTCT  
 CAGGGATAAGGCTCAGGGGATTGCTGGCCCTCT

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207670 protein sequence  
 Red=Cloning site Green=Tags(s)

MGPTRVPRRTVLFQRERTGLTYRVPALLCVPPRPTLLAFAEQRLSPDDSHAHRLVLRRTLTRGSVVRWGT  
 LSVLETAVLEEHRMNPVLDHSGTIFLFFIAVLGHTPEAVQIATGKNAARLCCVTS CDAGL TWG SVR  
 DL TEEA IGAALQDWATFAVGPGHVQLRSGRLLVPAYTYHVDRECFGKICWTSPLSLAFYSDDHGISWH  
 CGGLVPNLRSGECQLAAVDGDFLYCNARSPLGNRVQALSADEGTSFLPGELVPTLAETARGCQGSIVGFL  
 APPSIEPQDDRWTGSPRNTPHSPCFNLRVQESSGEGARGLLERWMPRLPLCYPQSRSPENHGLEPGSDGD  
 KTSWTPECPMSSDMLQSPTWLLYSHPAGRRARLHMGIYLSRSPLDPHSWTEPWVIYEGPSGYSDLAFLG  
 PMPGASLVFACLFESGTRTSYEDISFCLFSLADVLENVPTGLEMLSLRDKAQGHWCWPS

**SGP**TRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-RsrII

**Cloning Scheme:**


**ACCN:** NM\_173772

**ORF Size:** 1437 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\\_173772.3](#), [NP\\_776133.1](#)

**RefSeq Size:** 4524 bp

**RefSeq ORF:** 1437 bp

**Locus ID:** 241159

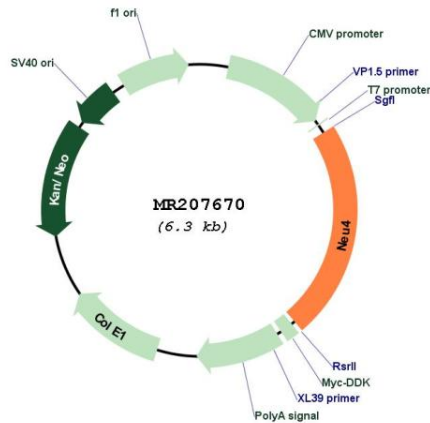
**UniProt ID:** [Q8BZL1](#)

**Cytogenetics:** 1 D

**MW:** 52.4 kDa

**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]

**Product images:**



Circular map for MR207670