

## Product datasheet for MR221093

### Neu2 (NM\_015750) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neu2 (NM_015750) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neu2
Synonyms:	MBS; MSS; MTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221093 representing NM_015750 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGACCTGCCCTGTCTGCAGAAGGAGACTGTTCCGCACAGGCGTCCATGCTTACAGAATCCCTG  
CTCTGCTCTACCTGAAGAAGCAGAAGACCCTGTGGCCTTTGCGGAAAAGCGAGCCAGCAAGACGGATGA  
GCACGCAGAGTTGATTGTCTGAGAAGAGGAAGCTACAACGAAGCCACCAACCGTGTCAAGTGGCAGCCT  
GAGGAAGTGGTGACCCAAGCCCAGCTGGAAGGCCACCGCTCCATGAATCCATGTCCCTTGTATGACAAGC  
AAACAAAGACCCTCTTCTTTTTCATCGCTGTCCCTGGGCGTGTATCAGAACATCATCAGCTCCACAC  
TAAGGTTAATGTACACGGCTGTGCTGTGTGAGCAGCACTGACCATGGGAGGACCTGGAGCCCCATCCAG  
GACCTCACAGAGACCACATTGGCAGCACTCATCAGGAATGGGCCACATTTGCTGTGGGTCTGGGCATT  
GTCTGCAGCTGCGGAACCCAGCTGGGAGCCTGCTGGTACCTGCTTATGCCTACCGGAAACTGCACCTGC  
TCAGAAGCCTACCCCTTTGCCTTCTGCTTTCATCAGCCTTACCATGGGCACACATGGAACTAGGCAAC  
TTTGTGGCTGAAAACCTACTGGAGTGCCAGGTGGCTGAGGTTGGCACTGGAGCTCAGAGGATGGTATATC  
TCAATGCTAGGAGCTTCTGGGAGCCAGGTCCAGGCACAAAGTCCTAATGATGGTCTGGATTTCCAGGA  
CAACCCGGTAGTGAGTAAGCTTGTAGAGCCCCCACGGGTGTCATGGAAGTGTGGTTGCCTTCCACAAC  
CCATCTCTAAGCCACATGCCTTAGACACATGGCTTCTTTATACACCCCTACAGACTCCAGGAATAGAA  
CCAACCTGGGTGTGTACCTAAACCAGATGCCACTAGATCCACAGCCTGGTCAGAGCCCACCTGCTGGC  
CATGGGCATCTGTGCTACTCAGACTTACAGAACATGGGCAAGGCCCTGATGGCTCCCCACAGTTTGGG  
TGTCTGTATGAATCAGGTAACATGAAGAGATCATTTTCTCATATTCACCCTGAAGCAAGCTTTCCCA  
CTGTATTTGATGCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221093 representing NM\_015750  
 Red=Cloning site Green=Tags(s)

MATCPVLQKETLFRITGVHAYRIPALLYLKKQKTLLEFAEKRAKTDEHAELIVLRRGSYNEATNRVKWQP  
 EEVVTQAQLEGHRSMNPCPLYDKQTKTLFLFFIAVPGRVSEHHQLHTKVNVTLLCCVSSDHDGRTWSPIQ  
 DLTETTIGSTHQEWATFVAVGPHCLQLRNPAGSLLVPAYAYRKLHPAQKPTPFACFISLDHGHTWKLGN  
 FVAENSLEQCVAEVTGAQRMVYLNARSFLGARVQAQSPNDGLDFQDNRVVSKLVEPPHGCHGSVAFHN  
 PISKPHALDTWLLYTHPTDSRNRNLGVYLNQMPDPTAWSEPTLLAMGICAYSDLQNMGGQPDGSPQFG  
 CLYESGNYEEIIFLIFTLKQAFPTVFDAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_015750

**ORF Size:** 1137 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_015750.3](#), [NP\\_056565.1](#)

**RefSeq Size:** 1588 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 23956

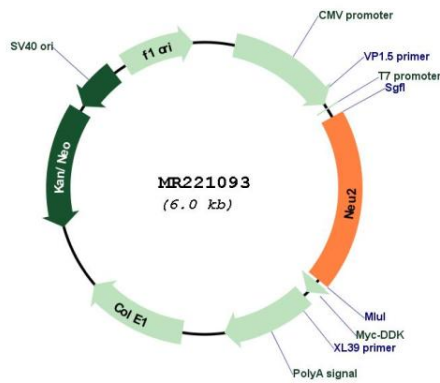
**UniProt ID:** [Q9JMH3](#)

**Cytogenetics:** 1 D

**MW:** 42.9 kDa

**Gene Summary:** Catalyzes the removal of sialic acid (N-acetylneuraminic acid) moieties from glycoproteins, oligosaccharides and gangliosides.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221093