

## Product datasheet for MR221091

### Neu2 (NM\_001160164) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Neu2 (NM\_001160164) 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:** >MR221091 representing NM\_001160164  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACCTGCCCTGTCTGCAGAAGGAGACTGTTCCGCACAGGCGTCCATGCTTACAGAATCCCTG  
 CTCTGCTCTACCTGAAGAAGCAGAAGACCCTGTGGCCTTTGCGGAAAAGCGAGCCAGCAAGACGGATGA  
 GCACGCAGAGTTGATTGTCTGAGAAGAGGAAGCTACAACGAAGCCACCAACCGTGTCAAGTGGCAGCCT  
 GAGGAAGTGGTGACCCAAGCCCAGCTGGAAGGCCACCGCTCCATGAATCCATGTCCCTTGTATGACAAGC  
 AAACAAAGACCCTCTTCTTTTTCATCGCTGTCCCTGGGCGTGTATCAGAACATCATCAGCTCCACAC  
 TAAGGTTAATGTACACGGCTGTGCTGTGTGAGCAGCACTGACCATGGGAGGACCTGGAGCCCCATCCAG  
 GACCTCACAGAGACCACATTGGCAGCACTCATCAGGAATGGGCCACATTTGCTGTGGGTCTGGGCATT  
 GTCTGCAGCTGCGGAACCCAGCTGGGAGCCTGCTGGTACCTGCTTATGCCTACCGGAAAATGCACCCCTGC  
 TCAGAAGCCTACCCCTTTGCCTTCTGCTTTCATCAGCCTTACCATGGGCACACATGGAACTAGGCAAC  
 TTTGTGGCTGAAAACCTACTGGAGTGCCAGGTGGCTGAGGTTGGCACTGGAGCTCAGAGGATGGTATATC  
 TCAATGCTAGGAGCTTCTGGGAGCCAGGTCAGGCACAAAGTCCTAATGATGGTCTGGATTTCCAGGA  
 CAACCGGTAGTGAGTAAGCTTGTAGAGCCCCCAGGGTGTGATGGAAGTGTGGTTGCCTTCCACAAC  
 CCCATCTAAGCCACATGCCTTAGACACATGGCTTCTTTATACACCCCTACAGACTCCAGGAATAGAA  
 CCAACCTGGGTGTGTACCTAAACCAGATGCCACTAGATCCACAGCCTGGTCAGAGCCCACCTGCTGGC  
 CATGGGCATCTGTGCTACTCAGACTTACAGAACATGGGCAAGGCCCTGATGGCTCCCCACAGTTTGGG  
 TGTCTGTATGAATCAGGTAATGAAGAGATCATTTTCTCATATTCACCCTGAAGCAAGCTTTCCCA  
 CTGATTTGATGCCAG

**ACGGT**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221091 representing NM\_001160164  
 Red=Cloning site Green=Tags(s)

MATCPVLQKETLFRITGVHAYRIPALLYLKKQKTLFAFAEKRAKTDEHAELIVLRRGSYNEATNRVKWQP  
 EEVVTQAQLEGHRSMNPCPLYDKQTKTLFLFFIAVPGRVSEHHQLHTKVNVTRLCCVSSDHDGRTWSPIQ  
 DLTETTIGSTHQEWATFVAVGPHCLQLRNPAGSLLVPAYAYRKLHPAQKPTPFACFISLDHGHTWKLGN  
 FVAENSLCQVAEVTGAQRMVYLNARSFLGARVQAQSPNDGLDFQDNRVVSKLVEPPHGCHGSVAVFHN  
 PISKPHALDTWLLYTHPTDSRNRNLGVYLNQMPLDPTAWSEPTLLAMGICAYSDLQNMGGQPDGSPQFG  
 CLYESGNYEEIIFLIFTLKQAFPTVFDAQ

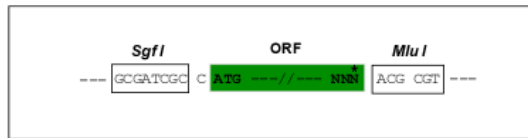
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001160164

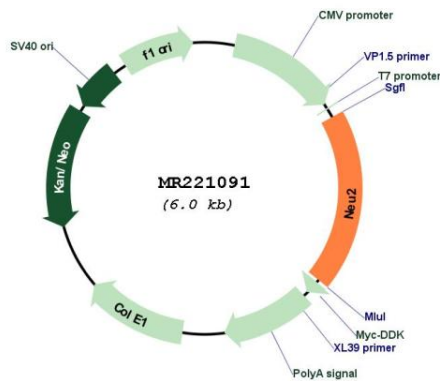
**ORF Size:** 1137 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001160164.1, NP_001153636.1</u>
<b>RefSeq Size:</b>	1620 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	23956
<b>UniProt ID:</b>	<u>Q9JMH3</u>
<b>Cytogenetics:</b>	1 D
<b>MW:</b>	42.9 kDa
<b>Gene Summary:</b>	Catalyzes the removal of sialic acid (N-acetylneuraminic acid) moieties from glycoproteins, oligosaccharides and gangliosides.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR221091