

## Product datasheet for **RG230160**

### **NEU4 (NM\_001167600) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NEU4 (NM_001167600) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEU4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230160 representing NM\_001167600  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTCCCTCGTACCCCTTACGGACAGTGTCTTCGAGCGGAGAGGACGGCCCTGACCTACCGCG  
 TGCCCTCGCTGCTCCCCGTGCCCCCGGGCCACCCTGCTGGCCTTTGTGAGCAGCGGCTCAGCCCTGA  
 CGACTCCACGCCACCCTGGTGTGAGGAGGGCACGCTGGCCGGGGCTCCGTGCGGTGGGGTGCC  
 CTGCACGTGCTGGGGACAGCAGCCCTGGCGGAGACCGGTCCATGAACCCTGCCCTGTGCACGATGCTG  
 GCACGGGACCGTCTTCTTCTTTCATCGCGGTGCTGGGCCACACGCTGAGGCCGTGCAGATCGCCAC  
 GGAAGGAACGCCGCGCCTCTGCTGTGTGGCCAGCCGTGACGCCGCCCTCTCGTGGGGCAGCGCCCG  
 GACCTACCGAGGAGCCATCGGTGGTCCGTGCAGGACTGGGCCACATTCGCTGTGGGTCCCGCCACG  
 GCGTGCAGCTGCCCTCAGGCCGCTGCTGTACCCGCTACACCTACCGGTGGACCGCCGAGAGTGT  
 TGGCAAGATCTGCCGACAGCCCTCACTCCTTCGCCTTACAGCGATGACCACGGCCGACCTGGCGC  
 TGTGGAGGCTCGTGCCCAACCTGCGCTCAGGCGAGTGCCAGCTGGCGGGGTGGACGGTGGCAGGCCG  
 GCAGTTCCTCTACTGCAATGCCCGAGCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGG  
 CACCTCCTTCTGCCCGCAGAGCGGTGGCTTCCCTGCCCGAGACTGCCTGGGGTGCCAGGGCAGCATC  
 GTGGGCTTCCAGCCCCGCCCAACAGGCCACGGGATGACAGTTGGTCACTGGGCCCGGGAGTCCCC  
 TCCAGCCTCCACTCCTCGGTCTGGAGTCCACGAACCCCAAGAGGAGGCTGTGTAGACCCCGTGGAGG  
 CCAGGTGCCTGGTGGGCCTTACGCCGTCTGCAGCCTCGGGGGATGGCCCCAGGCAGCTGGCCCCAGG  
 CCTGGGTCAGTGGGGATGTGGGTCTTGACCCTGGCACTCCCATGCCCTTGTGCTGCCCGCCCGAGA  
 GCCCACGTGGCTGTACTCCACCCAGTGGGGCGCAGGGCTCGCTACACATGGGTATCCGCCTGAG  
 CCAGTCCCCGCTGGACCCGCGCAGCTGGACAGAGCCCTGGGTGATCTACGAGGGCCCCAGCGCTACTCC  
 GACCTGGCGTCCATCGGGCCGGCTCTGAGGGGGCCTGGTTTTTGCCTGCTGTACGAGAGCGGGCCA  
 GGACCTCCTATGATGAGATTTCTTTTGTACATTTCCCTGCGTGAGGTCTGGAGAAGCTGCCCGCCAG  
 CCCAAGCCGCCAACCTGGGGACAAGCTCGGGGTGCTGCTGGCCCTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230160 representing NM\_001167600  
 Red=Cloning site Green=Tags(s)

MGVPRTPSRTVLFERERTGLTYRVPSSLPVPPGPTLLAFVEQRLSPDDSHAHRLVLRRTLAGGSVRWGA  
 LHVLGTAALAEHRSMNCPVHDAGTGTVFLFFIAVLGHTPEAVQIATGRNAARLCCVASRDAGLSWGSAR  
 DLTEEAIGGAVQDWATFVGPVGHVQLPSGRLLVPAYTYRVDRECFGKICRTSPHSFAFYSDDHGRTWR  
 CGGLVPNLRSGECQLAAVDGGQAGSFLYCNARSPLGSRVQALSTDEGTSFLPAERVASLPETAWGCQGSI  
 VGFPAAPNRPDDSSWSVGPSPQLQPPLLPGPVHEPPEEAADVPRGGQVPGGPF SRLQPRGDGPRQPGPR  
 PGVSGDVGSWTLALPMPFAAPPQSPTWLLYSHPVGRRARLHMGIRLSQSPLDPRSWTEPWVIYEGPSGYS  
 DLASIGPAPEGGLVFAFLYESGARTSYDEISFCTFSLRELVENVPASPKPPNLGDKPRGCCWPS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001167600

**ORF Size:** 1452 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](#)

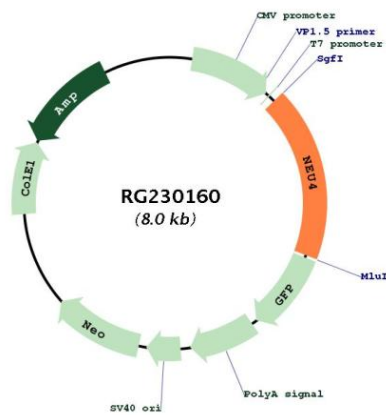
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001167600.1, NP\\_001161072.1](#)  
**RefSeq Size:** 2053 bp  
**RefSeq ORF:** 1455 bp  
**Locus ID:** 129807  
**UniProt ID:** [Q8WWR8](#)  
**Cytogenetics:** 2q37.3  
**Protein Pathways:** Other glycan degradation, Sphingolipid metabolism  
**Gene Summary:** The protein encoded by this gene belongs to a family of glycohydrolytic enzymes, which remove terminal sialic acid residues from various sialo derivatives, such as glycoproteins, glycolipids, oligosaccharides, and gangliosides. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Nov 2009]

### Product images:



Circular map for RG230160