

## Product datasheet for **RG230162**

### **NEU4 (NM\_001167602) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NEU4 (NM_001167602) 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:**

>RG230162 representing NM\_001167602  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGGTCCCTCGTACCCCTTACGGACAGTGTCTTCGAGCGGAGAGGACGGCCCTGACCTACCGCG  
 TGCCCTCGCTGCTCCCCGTGCCCGGGCCACCCTGCTGGCCTTTGTGAGCAGCGGCTCAGCCCTGA  
 CGACTCCACGCCACCCTGGTGTGAGGAGGGCACGCTGGCCGGGGCTCCGTGCGGTGGGGTGCC  
 CTGACAGTGTGGGACAGCAGCCCTGGCGGAGACCGGTCCATGAACCCTGCCCTGTGCACGATGCTG  
 GCACGGGACCGTCTTCTTCTTTCATCGCGGTGCTGGGCCACACGCTGAGGCCGTGCAGATCGCCAC  
 GGAAGGAACGCCGCGCCTCTGCTGTGTGGCCAGCCGTGACGCCGCCCTCTCGTGGGGCAGCGCCGG  
 GACCTACCGAGGAGCCATCGGTGGTCCGTGCAGGACTGGGCCACATTCGCTGTGGGTCCCGCCACG  
 GCGTGCAGTCCCTCAGGCCGCTGCTGTACCCGCTACACCTACCGGTGGACCGCCGAGAGTGT  
 TGGCAAGATCTGCCGACAGCCCTCACTCCTTCGCCTTACAGCGATGACCACGGCCGACCTGGCGC  
 TGTGGAGGCTCGTGCCCAACCTGCGCTCAGGCGAGTGCCAGCTGGCGCGGTGGACGGTGGCAGGCCG  
 GCAGTTCCTCTACTGCAATGCCCGAGCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGG  
 CACCTCCTTCTGCCCGCAGAGCGGTGGCTTCCCTGCCCGAGACTGCCTGGGGTGCCAGGGCAGCATC  
 GTGGGCTTCCAGCCCCGCCCAACAGGCCACGGGATGACAGTTGGTCACTGGGCCCGGGAGTCCCC  
 TCCAGCTCCACTCCTCGGTCTGGAGTCCACGAACCCCAAGAGGAGGCTGTGTAGACCCCGTGGAGG  
 CCAGGTGCCTGGTGGGCCTTACGCCGTCTGCAGCCTCGGGGGATGGCCCCAGGCAGCTGGCCCCAGG  
 CCTGGGGTCACTGGGGATGTGGGTCTTGACCCTGGCACTCCCATGCCCTTGTGCTGCCCGCCCGAGA  
 GCCCCACGTGGCTGTACTCCACCCAGTGGGGCGCAGGGCTCGCTACACATGGGTATCCGCCTGAG  
 CCAGTCCCGCTGGACCCGCGCAGCTGGACAGAGCCCTGGGTGATCTACGAGGGCCCCAGCGCTACTCC  
 GACCTGGCGTCCATCGGGCCGGCTCCTGAGGGGGCCTGGTTTTTGCCTGCCTGTACGAGAGCGGGCCA  
 GGACCTCCTATGATGAGATTTCTTTTGTACATTTCCCTGCGTGAGGTCTGGAGAACGTGCCCGCCAG  
 CCCCAGCGCCCAACCTGGGGACAAGCTCGGGGTGCTGCTGGCCCTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230162 representing NM\_001167602  
 Red=Cloning site Green=Tags(s)

MGVPRTPSRTVLFERERTGLTYRVPSSLPVPPGPTLLAFVEQRLSPDDSHAHRLVLRRTLAGGSVRWGA  
 LHVLGTAALAEHRSMNCPVHDAGTGTVFLFFIAVLGHTPEAVQIATGRNAARLCCVASRDAGLSWGSAR  
 DLTEEAIGGAVQDWATFVGPVGHVQLPSGRLLVPAYTYRVDRECFGKICRTSPHSFAFYSDDHGRTWR  
 CGGLVPNLRSGECQLAAVDGGQAGSFLYCNARSPLGSRVQALSTDEGTSFLPAERVASLPETAWGCQGS  
 VGFPAAPNRPDDSSWSVGPSPQLQPPLLPGPVHEPPEEAADVPRGGQVPGGPF SRLQPRGDGPRQPGPR  
 PGVSGDVGSWTLALPMPFAAPPQSPTWLLYSHPVGRRARLHMGIRLSQSPLDPRSWTEPWVIYEGPSGYS  
 DLASIGPAPEGGLVFAFLYESGARTSYDEISFCTFSLRELVENVPASPKPPNLGDKPRGCCWPS

**TRTRPLE** - GFP Tag - V

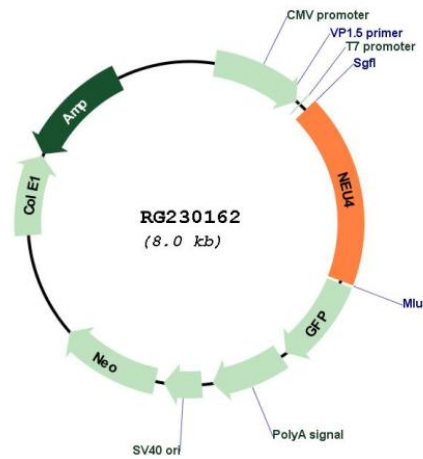
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001167602

ORF Size: 1452 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).

<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_001167602.1, NP_001161074.1</u>
<b>RefSeq Size:</b>	2551 bp
<b>RefSeq ORF:</b>	1455 bp
<b>Locus ID:</b>	129807
<b>UniProt ID:</b>	<u>Q8WWR8</u>
<b>Cytogenetics:</b>	2q37.3
<b>Protein Pathways:</b>	Other glycan degradation, Sphingolipid metabolism
<b>Gene Summary:</b>	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]