

Product datasheet for **SC328798**

NEU4 (NM_001167600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEU4 (NM_001167600) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEU4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001167600, the custom clone sequence may differ by one or more nucleotides

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AGCCCAGCGAGGCTGTGCTGCGAGGGGCTGTGCTGTGCCAGGGGAGCCCCGCACCCGGGAAGCCAGA
GGAGAGTGTGCACTCACGGAGCCCTCTGGCAGGGCCCGTCTCTGGAGCAGCAGACCCGTGCCCTCTG
GGAGGTCAACTGCGGCCCTCACAGCTGGGCCTGTCCAGCACAGCCCTTGTGGAGGGCGCACCCCGTGTG
CCTCAGCACCCCAAGTGTGAGTGCATTGACCTGCAGAGGGGAGCCTGTGCTGGTCCCGGGCGTCTGTGTG
GCTCCTGGGTGCCCATCTGCACCCTGGCCCTGCTCTGGGCTTCAAGTGGAGCCGTGCCACCGTGGGAGTG
TCCAGGGTCTGACGTAGCCCTGAGACGTGGCAGCTCCCTGGCCTGCTGCCCGCACAGTGGGCCCTTGT
CTCTGCTCTGGGTGAGGCGAGGACGCCACCCATGATGAGCTCTGCAGCCTTCCCAAGGTGGCTGAGCATG
GGGGTCCCTCGTACCCCTTACGGACAGTGTCTTTCGAGCGGGAGAGGACGGGCCGACCTACCGCGTGC
CCTCGTGTCTCCCGTGCACCCCGGGCCACCCCTGCTGGCCTTTGTGGAGCAGCGCTCAGCCCTGACGA
CTCCACGCCCACCGCTGGTGTGAGGAGGGGACGCTGGCCGGGGGCTCCGTGCGGTGGGGTGCCTG
CACGTGTGGGGACAGCAGCCCTGGCGGAGCACCAGTCCATGAACCCCTGCCCTGTGCAGATGCTGGCA
CGGGCACCGTCTTCTCTTTCATCGCGGTGCTGGGCCACACGCTGAGGCCGTGCAGATCGCCACGGG
AAGGAACGCCGCGCCCTCTGCTGTGTGCCAGCCGTGACGCGGCCCTCTCGTGGGGCAGCGCCCGGGAC
CTACCGAGGAGGCCATCGGTGGTGGCCTGAGGACTGGGCCACATTCGCTGTGGGTCCCGGCCACGGCG
TGCAGTGCCTCAGGCCGCTGCTGGTACCCGCTACACCTACCGCGTGGACCGCCGAGAGTGTGTTTGG
CAAGATCTGCCGAGCAGCCCTCACTCCTTCGCTTCTACAGCGATGACCACGGCCGACCTGGCGCTGT
GGAGGCCCTCGTCCCAACCTGCGCTCAGGCGAGTGCAGCTGGCGGCGGTGGACGGTGGGAGGCCGGCA
GCTTCTCTACTGCAATGCCCGGAGCCACTGGGACCCGTGTGCAGGCGCTCAGCACTGACGAGGGCAC
CTCCTTCTGCCGACAGCGCGTGGCTTCCCTGCCCCGAGACTGCCTGGGGCTGCCAGGCGAGATCGTG
GGCTTCCAGCCCCGCCCCAACAGGCCACGGGATGACAGTTGGTCAAGTGGGCCCGGGAGTCCCCTCC
AGCCTCCACTCCTCGGTCTGGAGTCCACGAACCCCCAGAGGAGGCTGCTGTAGACCCCGTGGAGGCCA
GGTGCCTGGTGGGCCCTCAGCCGTCTGCAGCCTCGGGGGATGGCCCCAGGCAGCCTGGCCCCAGGCC
GGGGTCAAGTGGGGATGTGGGGTCTGGACCCTGGCACTCCCCATGCCCTTTGCTGCCCGCCCCAGAGCC
CCACGTGGCTGTACTCCACCCAGTGGGGCGCAGGGCTCGGCTACACATGGGTATCCGCTGAGCCA
GTCCCCGCTGGACCCGCGCAGCTGGACAGAGCCCTGGGTGATCTACGAGGGCCCCAGCGGCTACTCCGAC
CTGGCGTCCATCGGGCCGCTCCTGAGGGGGGCTGGTTTTTGCCTGCCTGTACGAGAGCGGGGCCAGGA
CCTCCTATGATGAGATTTCTTTTGTACATTCTCCTGCGTGAGGTCTGGAGAAGTGGCCGCCAGCCC
CAAGCCGCCAACCTTGGGGACAAGCCTCGGGGGTGTGCTGGCCCTCCTGACAGCCTTCTGGCCGTGC
CCATGCCCTTGGGTGCCTGGGGCAGAGGGGTGGAATACGTTGGGGTGCCCCACGATAGCTGTGGGGGGG
GCTCTTAGTGCAAGATCCTGTGGATTAGAAACAAGTTGCTCCTCAGAGCTCTCAAGCAGGGACTGCTCTT
TAGGAAGGGGAGCAGCGGCTGGGAGTGTGAGCAGGGCAGGGTGGGGGAGGGTGGGGGCACGAAGTGGGCC
TGGGTGACCCCCACAGCTCCCTCCGAGGCTGCAGGGCCAGGCGCGGGACCGCAGGTAGCCAGGGTGT
GTGGGTGGCAGCACTTGTACTGGCTGCTTTCTGGCTCGAAATAAAGGAATCGTCTGTGAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
    
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Restriction Sites: EcoRI-XbaI

ACCN: NM_001167600

Insert Size: 2327 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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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]

Transcript Variant: This variant (3) contains an alternate exon at the 5' end compared to variant 1, resulting in translation initiation from an in-frame downstream AUG, and an isoform (3, also known as NEU4 short) with a shorter N-terminus compared to isoform 1. Variants 3-5 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.