

## Product datasheet for **SC328800**

### NEU4 (NM\_001167602) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NEU4 (NM_001167602) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEU4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001167602, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGTCCCTCGTACCCCTTACGGACAGTGTCTTTCGAGCGGGAGAGGACGGGCCTG
ACCTACCGCGTGCCTCGCTGCTCCCCGTGCCCCCGGGCCACCTGCTGGCCTTTGTG
GAGCAGCGGCTCAGCCCTGACGACTCCCACGCCACCGCCTGGTGTGAGGAGGGGACAG
CTGGCCGGGGGCTCCGTGCGGTGGGGTGCCTGCACGTGCTGGGGACAGCAGCCCTGGCG
GAGCACCGGTCCATGAACCCCTGCCCTGTGCACGATGCTGGCACGGGCACCGTCTTCCTC
TTCTTCATCGCGGTGCTGGGCCACACGCCCTGAGGCCGTGCAGATCGCCACGGGAAGGAAC
GCCCGCGCCCTGCTGTGTGGCCAGCCGTGACGCCGGCTCTCGTGGGGCAGCGCCCGG
GACCTCACCGAGGAGCCATCGGTGGTGCCTGACGACTGGGCCACATTGCTGTGGGT
CCCGGCCACGGCGTGCAGCTGCCCTCAGGCCGCTGCTGGTACCCGCTACACCTACCGC
GTGGACCGCCGAGAGTGTTCGCAAGATCTGCCGGACCAGCCCTCACTCCTTCGCCTTC
TACAGCGATGACCACGGCCGACCTGGCGCTGTGGAGGCCTCGTGCCCAACCTGCGCTCA
GGCGAGTGCCAGCTGGCGCGGTGGACGGTGGGCAGGCCGGCAGCTTCCTCTACTGCAAT
GCCCGGAGCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGGCACCTCCTTC
CTGCCCGAGAGCGCGTGGCTTCCTGCCCGAGACTGCCTGGGGTGCAGGGCAGCATC
GTGGGCTTCCCAGCCCCGCCCAACAGGCCACGGGATGACAGTTGGTCAGTGGGCCCC
GGGAGTCCCCTCCAGCCTCCACTCCTCGGTCTGGAGTCCACGAACCCCAAGAGGAGGCT
GCTGTAGACCCCGTGGAGGCCAGTGCCTGGTGGGCCCTTACGCCGTCTGCAGCCTCGG
GGGATGGCCCCAGGCAGCCTGGCCCCAGGCCTGGGGTCAAGTGGGGATGTGGGGTCTGG
ACCTGGCACTCCCATGCCCTTGTGCCCCGCCCAAGAGCCCCACGTGGCTGTGTAC
TCCCACCCAGTGGGGCGCAGGGCTCGGCTACACATGGGTATCCGCCTGAGCCAGTCCCCG
CTGGACCCGCGCAGCTGGACAGAGCCCTGGGTGATCTACGAGGGCCCCAGCGGCTACTCC
GACCTGGCGTCCATCGGGCCGCTCCTGAGGGGGGCTGGTTTTTGCCTGCCTGTACGAG
AGCGGGGCCAGGACCTCCTATGATGAGATTTCTTTTGTACATTTCCCTGCGTGAGGTC
CTGGAGAACGTGCCCGCAGCCCCAAGCCGCCAACCTTGGGGACAAGCCTCGGGGGTGC
TGCTGGCCCTCCTGA

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Restriction Sites: Please inquire



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<b>ACCN:</b>	NM_001167602
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	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.
<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_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>	<p>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]</p> <p>Transcript Variant: This variant (5) contains an additional 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.</p>