

Product datasheet for **SC123117**

NEU4 (NM_080741) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEU4 (NM_080741) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEU4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_080741 edited
AGCCCAGCGAGGCTGTGCTGCGAGGGGCTGTGCTGTGCCAGGGGAGGCCCCGCACCCGG
GAAGCCCAGAGGAGAGTGTGCACTACGGAGCCCTCCTGGCAGGGCCGCGTCTCTGGAGC
AGCAGACCCGTGTCCCTCTGGGAGGTCAACTGCGGCCCTCACAGCTGGGCCTGTCCAGCA
CAGCCCTTGTGGAGGGCGCACCCCGTGTCTCAGCACCCAGTGTGAGTGCAATTGAC
CTGCAGAGGGGAGCCTGTGCTGGTCCCAGGGCGTGTGTGGCTCCTGGGTGCCATCTGC
ACCCTGGCCCTGCTCTGGGCTTCACTGGAGCCGTGCCACCGTGGGAGTGTCCAGGGTCC
TGACGTAGCCCTGAGACGTGGCCAGCTCCCTGGCCTGCTGCCCGCACAGTGGGCCCTTGT
CTCTGCTCTGGGTCAGGCGAGGCAAGCCATGATGAGCTCTGCAGCCTTCCCAAGGTG
GCTGAGCATGGGGTCCCTCGTACCCCTTACGGACAGTGTCTTTCGAGCGGGAGAGGAC
GGGCTGACCTACCGGTGCCCTCGCTGCTCCCGTGGCCCCGGGCCACCCCTGCTGGC
CTTTGTGGAGCAGCGCTCAGCCCTGACGACTCCACGCCACCGCTGGTGTGAGGAG
GGGCACGCTGGCCGGGGCTCCGTGCGGTGGGGTGCCTGCACGTGCTGGGGACAGCAGC
CCTGGCGGAGCACCGGTCCATGAACCCCTGCCCTGTGCACGATGCTGGCACGGGCACCGT
CTTCTCTTCTTATCGCGGTGCTGGGCCACACGCTGAGGCCGTGCAGATCGCCACGGG
AAGGAACGCCGCGCCCTCTGCTGTGTGCCAGCCGTGACGCCGCGCTCTCGTGGGGCAG
CGCCCCGGACCTCACCGAGGAGGCCATCGGTGGTGCCTGCAGGACTGGGCCACATTGCG
TGTGGTCCCAGGACCGCGTGCAGTGCCTCAGGCCGCTGCTGGTACCCGCTACAC
CTACCGGTGGACCGCGAGAGTGTGGCAAGATCTGCCGACAGCCCTCACTCCTT
CGCCTTACAGCGATGACACGGCCGACCTGGCGCTGTGGAGGCTCGTGCCAACT
GCGCTCAGGCGAGTGCAGCTGGCGGGTGGACGGTGGGAGGCCGGCAGCTTCTCTA
CTGCAATGCCCGAGCCACTGGGCAGCCGTGTGCAGGCGCTCAGCACTGACGAGGGCAC
CTCCTTCCCGCAGAGCGCGTGGCTTCCCTGCCGAGACTGCCTGGGGCTGCCAGGG
CAGCATCGTGGGCTTCCAGCCCCGCCCAACAGGCCACGGGATGACAGTTGGTCAGT
GGGCCCGGGAGTCCCCTCCAGCCTCCACTCCTCGGTCCCTGGAGTCCACGAACCCCCAGA
GGAGGCTGCTGTAGACCCCGTGGAGGCCAGGTGCCTGGTGGGCCCTTACGCCGTGCA
GCCTCGGGGGATGGCCCCAGGCAGCCTGGCCCCAGGCCGGGTGAGTGGGGATGTGGG
GTCCTGGACCCTGGCACTCCCCATGCCCTTGTGCCCCGCCAGAGCCCCACGTGGCT
GCTGTACTCCACCCAGTGGGGCGCAGGGCTCGGCTACACATGGGTATCCGCCTGAGCCA
GTCCCCGCTGGACCCGCGCAGCTGGACAGAGCCCTGGGTGATCTACGAGGGCCCCAGCGG
CTACTCCGACCTGGCGTCCATCGGGCCGGCTCCTGAGGGGGCCCTGGTTTTTGCCTGCCT
GTACGAGAGCGGGGCCAGGACCTCCTATGATGAGATTTCTTTTGTACATTCTCCCTGCG
TGAGGTCCTGGAGAACGTGCCCGCCAGCCCAAGCCGCCAACCTTGGGGACAAGCCTCG
GGGGTGTGCTGGCCCTCCTGACAGGCCTTCTGGCCGTGCCATGCCCTTGGGTGCCTG
GGGCAGAGGGGTGGAATACGTTGGGGTGGCCACGATAGCTGTGGGGGGGCTCTTAGTG
CAAGATCCTGTGGATTAGAAACAAGTTGCTCCTCAGAGCTCTCAAGCAGGGACTGCTCTT
TAGGAAGGGGAGCAGCGGCTGGGAGTGAAGAGGGCAGGGTGGGGGAGGGTGGGGGCAGC
AAGTGGGCCCTGGGTGACCCCCACAGTCCCTTCCGAGGCTGCAGGGCCAGGCGGGGAC
CGCAGGTAGCCCAGGGTGTGTGGGTGGCAGCACTTGTTTACTGGCTGCTTCTGGCTCG
AAATAAAGGAATCGTGCTTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080741 unedited NNNNGGTCTTTTTGTATACGATCATATGGGCGGCCGCGNATTCCTCCGGGATATCGTCGACC CACGCGTCCGAGCCCAGCGAGGCCTGTGCTGCGAGGGGCTGTGCTGTGCCAGGGGAGGCC CCGCACCCGGGAAGCCCAGAGGAGAGTGTGCACTACGGAGCCCTCCTGGCAGGGCCGCG TCTCTGGAGCAGCAGACCCGTGTCCCTCTGGGAGGTCAACTGCGGCCTCACAGCTGGGCC TGTCCCAGCACAGCCCTTGTGGAGGGCGACCCCGTGTCTCAGCACCCCAAGTGTGA GTGCATTGACCTGCAGAGGGGAGCCTGTGCTGGTCCCGGGCGTCTGTGTGGCTCCTGGGT GCCCATCTGCACCCTGGCCCTGCTCTGGGCTTCAGTGGAGCCGTGCCACCGTGGGAGTG TCCAGGGTCTGACGTAGCCCTGAGACGTGGCCAGCTCCCTGGCCTGCTGCCCGCACAGT GGGCCCTTGTCTCTGCTCTGGGTGAGGCGAGGCAGCCACCCATGATGAGCTCTGCAGCCT TCCAAGTGGCTGAGCATGGGGTCCCTCGTACCCCTTACGGACAGTGTCTTTCGAGC GGGAGAGGACGGGCTGACCTACCGCGTGCCTCGCTGCTCCCGTGCCTCCCGGGCCCA CCCTGCTGGCCTTGTGGAGCAGCGGCTCAGCCCTGACGACTCCCACGCCACCGCCTGG TGCTGAGGAGGGGACGCTGGCCGNGGCTCCGTGCGGTGGGGTGCCTGCACGTGCTGG GGACAGCAGCCCTGGCGGAGCACCGGTCCATGAACCCCTGCCCTGTGCACGATGCTGGCA CGGCACCGTCTTCTCTTTCATCGCGGTGCTGGGCCACAC
Restriction Sites:	Please inquire
ACCN:	NM_080741
Insert Size:	2327 bp
OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_080741.1</u> , <u>NP_542779.2</u>
RefSeq Size:	2327 bp
RefSeq ORF:	1491 bp
Locus ID:	129807
UniProt ID:	<u>Q8WWR8</u>
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 (1) encodes isoform 1 (also known as NEU4 long). 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.