

## Product datasheet for **SC320660**

### Neuraminidase (NEU1) (NM\_000434) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuraminidase (NEU1) (NM_000434) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuraminidase
Synonyms:	NANH; NEU; SIAL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000434.2  
 GGCTTAAGGGTGACATCTGCGCTTTAAAGGGTCCGGGTGACCTGACTCCCGACTCTGTGG  
 AGTCTAGCTGCCAGGGTCGCGGCAGCTGCGGGGAGAGATGACTGGGGAGCGACCCAGCAC  
 GGCGCTCCCGACAGACGCTGGGGGCCGCGATTCTGGGCTTCTGGGGAGGCTGTAGGGT  
 TTGGGTGTTTCCCGCATCTTCTGCTGCTGTCTTGGCAGCCTCCTGGTCCAAGGCTGA  
 GAACGACTTCGGTCTGGTGCAGCCGCTGGTGACCATGGAGCAACTGCTGTGGGTGAGCGG  
 GAGACAGATCGGCTCAGTGGACACCTTCCGCATCCCGCTCATCACAGCCACTCCGCGGGG  
 CACTCTTCTCGCCTTTGCTGAGGCGAGGAAAATGTCCTCATCCGATGAGGGGGCCAAGTT  
 CATCGCCCTGCGGAGGTCCATGGACCAGGGCAGCACATGGTCTCCTACAGCGTTCATTGT  
 CAATGATGGGGATGTCCCGATGGGCTGAACCTTGGGGCAGTAGTGAGCGATGTTGAGAC  
 AGGAGTAGTATTTCTTTTCTACTCCCTTGTGCTCACAAGGCCGGCTGCCAGGTGGCCTC  
 TACCATGTTGGTATGGAGCAAGGATGATGGTGTTCCTGGAGCACACCCCGGAATCTCTC  
 CCTGGATATTGGCACTGAAGTGTTCCTTGGCCCTGGACCGGGCTCTGGTATTCAGAAACGG  
 GGAGCCACGGAAGGGCCCTCATCGTGTGTGGCCATGGGACGCTGGAGCGGGACGGAGT  
 CTTCTGTCTCCTCAGCGATGATCATGGTGCCTCCTGGCGTACGGAAGTGGGGTACGCGG  
 CATCCCTACGGTCAGCCCAAGCAGGAAAATGATTTCAATCCTGATGAATGCCAGCCCTA  
 TGAGTCCAGATGGCTCAGTCGTCATCAATGCCCGAAAACAGAACTACCACTGCCA  
 CTGCCAATTGCTCCTCCGAGCTATGATGCCTGTGATACACTAAGGCCCGTGATGTGAC  
 CTTGACCCCTGAGCTCGTGGACCCTGTGGTAGCTGCAGGAGCTGTAGTACCAGCTCCGG  
 CATTGTCTTTCTTCCAACCCAGCACATCCAGAGTTCGAGTGAACCTGACCCCTGCGATG  
 GAGCTTCAGCAATGGTACCTCATGGCGGAAAGAGACAGTCCAGCTATGGCCAGGCCCCAG  
 TGGCTATTATCCCTGGCAACCTGGAGGGCAGCATGGATGGAGAGGAGCAGGCCCCCA  
 GCTCTACGTCTGTATGAGAAAGGCCGGAACCACTACACAGAGAGCATCTCCGTGGCCAA  
 AATCAGTGTCTATGGGACACTCTGAGCTGTGCCACTGCCACAGGGGTATTCTGCCTTCAG  
 GACTCTGCCTTCAGGAACACGGGTCTGTAGAGGGTCTGCTGGAGACGCTGAAAGACAGT  
 TCCATCTTCTTTAGACTCCAGCCTTGGCAAAATCACCTTCCCTTTACCAGGGAAATCAC  
 TTCCTTTAGGACTGAAAGCTAGGCGTCTCTCCCAAAAAAGTCTGCCCTCATCTGAG  
 AATACTGTCTTTCCATATGGCTAAGTGTGGCCCAACCACCCTCTGCCCCTCCGGGACA  
 TTGATTGGTCTGTCTTGGGAGGTCTAGTGAGCTGTAGAATTGAATCAATGTGAACTCA  
 GGGAACTGGGGAAGGCTGAGCCTCCTCTTGGTGTGCGGTAAGATAACCGACAGGGCTG  
 GTGAAAGTCCCCAGATGGCAGGATATTTGGTTTCAGAGTAAGGACTAGGTGCACCACCAT  
 GACTGACTATCAATCAAAATGTTTGTAACTTAAAATTTTAAATGAAGGATAATGAATATT  
 GTGAGAGTCTCTATGGTTCTGTCAATGCAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000434

**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](#)

<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>	<a href="#">NM_000434.2</a> , <a href="#">NP_000425.1</a>
<b>RefSeq Size:</b>	1943 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	4758
<b>UniProt ID:</b>	<a href="#">Q99519</a>
<b>Cytogenetics:</b>	6p21.33
<b>Domains:</b>	BNR
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Lysosome, Other glycan degradation, Sphingolipid metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is a lysosomal enzyme that cleaves terminal sialic acid residues from substrates such as glycoproteins and glycolipids. In the lysosome, this enzyme is part of a heterotrimeric complex together with beta-galactosidase and cathepsin A (the latter is also referred to as 'protective protein'). Mutations in this gene can lead to sialidosis, a lysosomal storage disease that can be type 1 (cherry red spot-myoclonus syndrome or normosomatic type), which is late-onset, or type 2 (the dysmorphic type), which occurs at an earlier age with increased severity. [provided by RefSeq, Jul 2008]