

Product datasheet for **RG200386**

Neuraminidase (NEU1) (NM_000434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuraminidase (NEU1) (NM_000434) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Neuraminidase
Synonyms:	NANH; NEU; SIAL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200386 representing NM_000434 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGGGGAGCGACCCAGCACGGCGCTCCCGGACAGACGCTGGGGGCCGGATTCTGGGCTTCTGGG
GAGGCTGTAGGGTTTGGGTGTTTGCCGCGATCTCCTGCTGTCTCTGGCAGCCTCCTGGTCCAAGGC
TGAGAACGACTTCGGTCTGGTGCAGCCGCTGGTGACCATGGAGCAACTGCTGTGGGTGAGCGGGAGACAG
ATCGGCTCAGTGGACACCTCCGCATCCGCTCATCACAGCCACTCCGCGGGCACTCTTCTCGCCTTTG
CTGAGGCGAGGAAAATGCCTCATCCGATGAGGGGGCCAAGTTCATCGCCCTGCGGAGGTCCATGGACCA
GGGCAGCACATGGTCTCCTACAGCGTTCATTGTCAATGATGGGGATGTCCCGATGGGCTGAACCTTGGG
GCAGTAGTGAGCGATGTTGAGACAGGAGTAGTATTTCTTTTCTACTCCCTTTGTGCTCACAAAGCCGGCT
GCCAGGTGGCCTTACCATGTTGGTATGGAGCAAGGATGATGGTGTTCCTGGAGCACACCCCGGAATCT
CTCCCTGGATATTGGCACTGAAGTGTGGCCCTGGACCGGGCTCTGGTATTAGAAACAGCGGGAGCCA
CGGAAGGGCCGCCTCATCGTGTGTGGCCATGGGACGCTGGAGCGGGACGGAGTCTTCTGTCTCCTCAGCG
ATGATCATGGTGCCTCCTGGCGCTACGGAAGTGGGTGAGCGGCATCCCTACGGTCAGCCCAAGCAGGA
AAATGATTTCAATCCTGATGAATGCCAGCCATGAGCTCCAGATGGCTCAGTCGTATCAATGCCCGA
AACCAGAACAACCTACCCTGCCACTGCCAATTGCTCCGAGCTATGATGCCTGTGATACACTAAGCG
CCCGTGTGTGACCTTCGACCTGAGCTCGTGGACCCTGTGGTAGCTGCAGGAGCTGTAGTACACAGCTC
CGGCATTGTCTTCTTCTCCAACCCAGCACATCCAGAGTTCGAGTGAACCTGACCCTGCGATGGAGCTTC
AGCAATGGTACCTCATGGCGAAAGAGACAGTCCAGCTATGGCCAGGCCCCAGTGGCTATTATCCCTGG
CAACCCTGGAGGGCAGCATGGATGGAGAGGAGCAGGCCCCAGCTCTACGTCCTGTATGAGAAAGGCC
GAACCACTACACAGAGAGCATCTCCGTGGCCAAAATCAGTGTCTATGGGACACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200386 representing NM_000434
 Red=Cloning site Green=Tags(s)

MTGERPSTALPDRRWGPRILGFWGGCRVWVFAAIFLLLSLAASWSKAENDFGLVQPLVTMEQLLWVSGRQ
 IGSVDTRIFLITATPRGTLTLLAFEAARKMSSSDEGAKFIALRRSMDQGSTWSPTAFIVNDGDVDPGLNLG
 AVVSDVETGVVFLFYSLCAHKAGCQVASTMLVWSKDDGVSWSTPRNLSLDIGTEVFAPGPGSGIQKQREP
 RKGRLLIVCGHGTLERDGVFCLLSDDHGASWRYGSGVSGIPYGPQKQENDFNPDECQPYELPDGSSVINAR
 NQNNYHCHCRIVLRSYDADTLRPRDVTDFPELVDPVVAAGAVVTSSGIVFFSNPAHPEFRVNLTLRWSF
 SNGTSWRKETVQLWPGPSGYSSLATLEGSMDGEEQAPQLYVLYEKGRNHYTESISVAKISVYGTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000434

ORF Size: 1245 bp

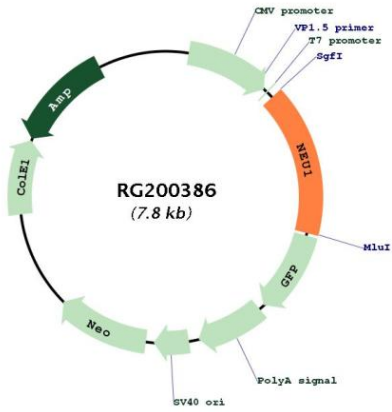
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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).
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:	NM_000434.4
RefSeq Size:	1943 bp
RefSeq ORF:	1248 bp
Locus ID:	4758
UniProt ID:	Q99519
Cytogenetics:	6p21.33
Domains:	BNR
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome, Other glycan degradation, Sphingolipid metabolism
Gene Summary:	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]

Product images:



Circular map for RG200386