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Product datasheet for SC119888

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:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119888 sequence for NM_000434 edited (data generated by NextGen Sequencing)

ATGACTGGGGAGCGACCCAGCACGGCGCTCCCGGACAGACGCTGGGGGCCGCGGATTCTG
GGCTTCTGGGGAGGCTGTAGGGTTTGGGTGTTTGCCGCGATCTTCCTGCTGCTGTCTCTG
GCAGCCTCCTGGTCCAAGGCTGAGAACGACTTCGGTCTGGTGCAGCCGCTGGTGACCATG
GAGCAACTGCTGTGGGTGAGCGGGAGACAGATCGGCTCAGTGGACACCTTCCGCATCCCG
CTCATCACAGCCACTCCGCGGGGCACTCTTCTCGCCTTTGCTGAGGCGAGGAAAATGTCC
TCATCCGATGAGGGGGCCAAGTTCATCGCCCTGCGGAGGTCCATGGACCAGGGCAGCACA
TGGTCTCCTACAGCGTTCATTGTCAATGATGGGGATGTCCCCGATGGGCTGAACCTTGGG
GCAGTAGTGAGCGATGTTGAGACAGGAGTAGTATTTCTTTTCTACTCCCTTTGTGCTCAC
AAGGCCGGCTGCCAGGTGGCCTCTACCATGTTGGTATGGAGCAAGGATGATGGTGTTTCC
TGGAGCACACCCCGGAATCTCTCCCTGGATATTGGCACTGAAGTGTTTGCCCCTGGACCG
GGCTCTGGTATTCAGAAACAGCGGGAGCCACGGAAGGGCCGCCTCATCGTGTGTGGCCAT
GGGACGCTGGAGCGGGACGGAGTCTTCTGTCTCCTCAGCGATGATCATGGTGCCTCCTGG
CGCTACGGAAGTGGGGTCAGCGGCATCCCCTACGGTCAGCCCAAGCAGGAAAATGATTTC
AATCCTGATGAATGCCAGCCCTATGAGCTCCCAGATGGCTCAGTCGTCATCAATGCCCGA
AACCAGAACAACTACCACTGCCACTGCCGAATTGTCCTCCGCAGCTATGATGCCTGTGAT
ACACTAAGGCCCCGTGATGTGACCTTCGACCCTGAGCTCGTGGACCCTGTGGTAGCTGCA
GGAGCTGTAGTCACCAGCTCCGGCATTGTCTTCTTCTCCAACCCAGCACATCCAGAGTTC
CGAGTGAACCTGACCCTGCGATGGAGCTTCAGCAATGGTACCTCATGGCGGAAAGAGACA
GTCCAGCTATGGCCAGGCCCCAGTGGCTATTCATCCCTGGCAACCCTGGAGGGCAGCATG
GATGGAGAGGAGCAGGCCCCCCAGCTCTACGTCCTGTATGAGAAAGGCCGGAACCACTAC
ACAGAGAGCATCTCCGTGGCCAAAATCAGTGTCTATGGGACACTCTGA

Clone variation with respect to NM_000434.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000434 unedited
TCCTATAGGCGGCCCGCGAATTCGCACGAGGCTGTGGAGTCTAGCTGCCAGGGTCGCGGC
AGCTGCGGGGAGAGATGACTGGGGAGCGACCCAGCACGGCGCTCCCGGACAGACGCTGGG
GGCCGCGGATTCTGGGCTTCTGGGGAGGCTGTAGGGTTTGGGTGTTTGCCGCGATCTTCC
TGCTGCTGTCTCTGGCAGCCTCCTGGTCCAAGGCTGAGAACGACTTCGGTCTGGTGCAGC
CGCTGGTGACCATGGAGCAACTGCTGTGGGTGAGCGGGAGACAGATCGGCTCAGTGGACA
CCTTCCGCATCCCGCTCATCACAGCCACTCCGCGGGGCACTCTTCTCGCCTTTGCTGAGG
CGAGGAAAATGTCCTCATCCGATGAGGGGGCCAAGTTCATCGCCCTGCGGAGGTCCATGG
ACCAGGGCAGCACATGGTCTCCTACAGCGTTCATTGTCAATGATGGGGATGTCCCCGATG
GGCTGAACCTTGGGGCAGTAGTGAGCGATGTTGAGACAGGAGTAGTATTTCTTTTCTACT
CCCTTTGTGCTCACAAGGCCGGCTGCCAGGTGGCCTCTACCATGTTGGTATGGAGCAAGG
ATGATGGTGTTTCCTGGAGCACACCCCGGAATCTCTCCCTGGATATTGGCACTGAAGTGT
TTGCCCCTGGACCGGGCTCTGGTATTCAGAAACAGCGGGAGCCACGGAAAGGCCGGCTCA
TCGTGTGTGGCCATGGGACGCTGGAGCGGNACGGAGTCTTCTGTCTCCTCAGCGATGATC
ATGGTGCCTCCTGGCGCTCGGAAAGTGGGGTCAGCGGCATCCCCTACGGGCAGCCCAGCA
CGAAAATGGATTCATTCCTGAGATGGCAGCCCTATAACTCCAGAGGGGTACAGCGTATCA
TGCCCGAANCAAACACTACCCTGCCACTGCCGAATGCCTCGCAGCTTGAGCCTGGATAAC
TAGCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000434 unedited
GGTACATCTATGNNACCGCGGCCGCAATCTANATCGAGTTTTTTTTTTTTTTTTTAAAA
TGAAGTCTTGCTCTGTCGCCCAGGCTGGAGGGCAGTGGCATAATCTCGGCTCACTGCAAC
CTCTGCCTCCCAGGTTCAAGTGAGTCTCCTGCCTCAGGCTCCCGAGTAGCTGGGACTACA
GGCGTGTGCCACCACATATGGCTAATATTTGTATTTTTATTTTTTATGGGGTTTTACCAT
GTTGGCCAGGCTGGTCTAGAACCCCTGACCTTGTGATCCGCCCACCTCGGCCTCCCAAAG
TGCTGGGATTACAGGCGTGAGCCACCGCACCTGACCCTTCCCTGTGTATTAAAAGAAAAA
AAAAAAGCTGGAAAAAAAAAGGTTCTTTAACTATTTCTGCAACTTTGACGTACATATAATT
CATTTTAGCTGGACACTTGCACTTGTTTAAAAGTTCTGACCCTGGTTTTCAAACTTAAAC
GTATTACGAATCACCCAGAAGGCTTGTTAATGCCTGGTGGCTCCAACACCAGAGCTTCAG
ATTCCATGGGTCTGTAAAGAGTGAGGGAGGGAAGGTCAAGCTTTTTTTCTTTCTTGAAGG
TTTTTTGTTTTGGTTTGGTTTTTTGGAGATGAGGTCTCACTCTGTCACCTAAGTTGGTGT
GCAGTGGTGCAATCATAGCTTACCACTGCCTCGAACTCCTGGGGTCAAAGAGATCAAGCC
TTCCCTCCCTGTAGCTAGGAACTTTAGGTGTGCGTTACCCATGCCTGGCTATATTTTTTA
AATTTTTTAAAACAGGGGGTAATGCCCTTGTTGCCCAAGAAGCCCCTTTAATTTGGATCA
TCCCGCCCTTGGGCTTCCCGAAGTGCTTGCCTTTCCAATTCTTGAAACCCCCCCCCTAAC
CCCGGAAGGTAGGTGTTTGTCTCT

Restriction Sites: NotI-NotI

ACCN: NM_000434

Insert Size: 3370 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
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_000434.2, NP_000425.1
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]