

Product datasheet for **RC216537**

Sialidase 3 (NEU3) (NM_006656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sialidase 3 (NEU3) (NM_006656) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sialidase 3
Synonyms:	SIAL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216537 representing NM_006656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGACCTGCGGACCTGCCCCCGCCCCATGGAAGAATCCCCGGCGTCCAGCTCTGCCCCGACAGAGA
 CGGAGGAGCCGGGTCCAGTGCAGAGGTCATGGAAGAAGTGACAACATGCTCCTTCAACAGCCCTCTGTT
 CCGGCAGGAAGATGACAGAGGGATTACCTACCGGATCCCAGCCCTGCTCTACATACCCCCACCCACACC
 TTCCTGGCCTTTGCAGAGAAGCGTTCTACGAGGAGAGATGAGGATGCTCTCCACCTGGTGTGAGGCGAG
 GGTTGAGGATTGGGCAGTTGGTACAGTGGGGGCCCTGAAGCCACTGATGGAAGCCACACTACCGGGCA
 TCGGACCATGAACCCCTGCTGTATGGGAGCAGAAGAGTGGTTGTGTCTCTGTTCTTCATCTGTGTG
 CGGGCCATGTCACAGAGCGTCAACAGATTGTGTGAGGAGGAAATGCTGCCCGCCTTTGCTTCATCTACA
 GTCAGGATGCTGGATGTTTCATGGAGTGGTGGAGGACTTGACTGAGGAGGTCATTGGCTCAGAGCTGAA
 GCACTGGGCCACATTTGCTGTGGGCCAGGTCATGGCATCCAGCTGCAGTCAGGGAGACTGGTCATCCCT
 GCGTATACCTACTACATCCCTTCTGGTCTTTTGGCTTCCAGCTACCATGTAAAACAGGCTCATTCTC
 TGATGATCTACAGTGTGACCTAGGGGTACATGGCACCATGGTAGACTCATTAGGCCATGGTTACAGT
 AGAATGTGAAGTGGCAGAGGTGACTGGGAGGGCTGGCCACCCTGTGCTATATTGCAGTGGCCGGACCA
 AACAGGTGCCGGCAGAGGCGCTCAGCACTGACCATGGTGAAGGCTTTCAGAGACTGGCCCTGAGTCGAC
 AGCTCTGTGAGCCCCACATGGTTGCCAAGGGAGTGTGGTAAGTTCCGGCCCTGGAGATCCCACATAG
 GTGCCAGGACTCTAGCAGCAAAGATGCACCCACCATCAGCAGAGCTCTCCAGGCAGTTCCTGAGGCTG
 GAGGAGGAAGCTGGAACCCGTCAGAATCATGGCTCTTGTACTCACACCAACAGTAGGAAACAGAGGG
 TTGACCTAGGTATCTATCTCAACCAGACCCCTTGGAGGCTGCCCTGCTGGTCCCGCCCTGGATCTTGA
 CTGTGGGCCCTGTGGCTACTCTGATCTGGCTGCTGGAGGAGGAGGGCTTGTGGGTGTTTGTGTTGAA
 TGTGGGACCAAGCAAGAGTGTGAGCAGATTGCCTTCCGCCTGTTTACACACCGGGAGATCCTGAGTCACC
 TGCAGGGGACTGCACCAGCCCTGGTAGGAACCAAGCCAATTCAAAGCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216537 representing NM_006656
 Red=Cloning site Green=Tags(s)

MRPADLPPRPMEESSPASSAPTETEEPGSSAEVMEEVTTCSFNSPLFRQEDDRGITYRIPALLYIPPTHT
 FLAFAEKRSTRRDEDALHLVLRRLRIGQLVQWGPKPLMEATLPGHRTMNPVWEQKSGCVLFFICV
 RGHVTERQQIVSGRNAARLCFIYSQDAGCSWSEVRDLTEEVIGSELKHWFATFVAVGPHGIQLQSGRLVIP
 AYTTYIPSWFFCFQLPCKTRPHSLMIYSDDLGVTHHGRLIRPMVTVECEVAEVTGRAGHPVLYCSARTP
 NRCRAEALSTDHGEFQRLALSRQLCEPPHGCQGSVVSFRPLEIPHRCQDSSSKDAPTIQQSSPGSLRL
 EEEAGTPSESWLLYSHTSRKQRVDLGIYLNQTPLEAACWSRPWILHCGPCGYSDLAALEEEGLFGCLFE
 CGTKQECEQIAFRLFTHREILSHLQGDCTSPGRNPSQFKSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8120_d03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006656

ORF Size: 1383 bp

OTI Disclaimer: 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:

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_006656.6](#)
RefSeq Size: 2748 bp

RefSeq ORF: 1386 bp

Locus ID: 10825

UniProt ID: [Q9UQ49](#)
Cytogenetics: 11q13.4

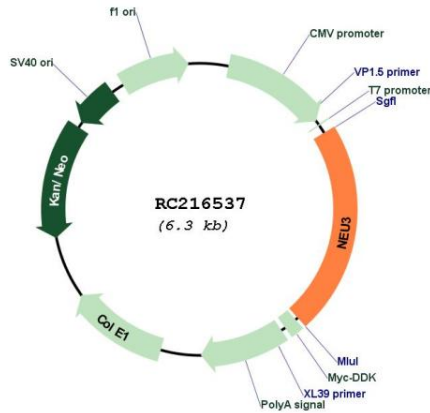
Domains: BNR

Protein Pathways: Other glycan degradation, Sphingolipid metabolism

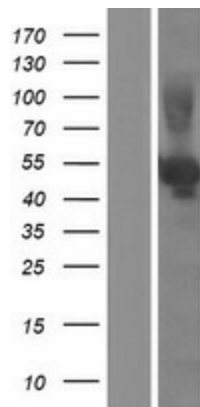
MW: 52.1 kDa

Gene Summary: This gene product belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. It is localized in the plasma membrane, and its activity is specific for gangliosides. It may play a role in modulating the ganglioside content of the lipid bilayer. [provided by RefSeq, Jul 2008]

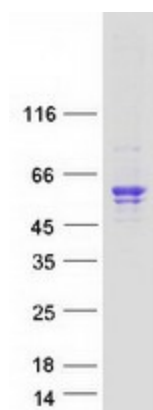
Product images:



Circular map for RC216537



Western blot validation of overexpression lysate (Cat# [LY401990]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216537 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEU3 protein (Cat# [TP316537]). The protein was produced from HEK293T cells transfected with NEU3 cDNA clone (Cat# RC216537) using MegaTran 2.0 (Cat# [TT210002]).