

Product datasheet for **RG216537**

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:	TurboGFP
Symbol:	Sialidase 3
Synonyms:	SIAL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG216537 representing NM_006656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCTGGACCTCTGGTCTTTTTGTAGGGTACCTCTGAGGCCGGAACCTTTGCTCAACTCTCAGGC
 TGTCAGGGAAGCTTTAGGCGGTGATACCGAGCTACAGACCAATAAAGAGCTCGGGGCTGTGGCACTGA
 AGAGAGGAGGCGGCCGTTGGAACTGAGGTGGGCCAGGGCTTGAGCTGAGTTGGCGAGGGTGGAGTGG
 TGCCGGTCCCACGCCGTTGGGGACCGAGCTGCGGGCTGGAGGAGGGGACGCGCCAGGGGGCGGGAC
 GGGAGAGGGCTCGCGGAGTAGGCCAACGGTTGGCCCCAACCGCCACTGACTACAGCTGCGCCCGCTCT
 TTTCTGTTGCCGTTACCTGTTCCGGCAGTCGACACGCTCTTCGTTCTCGGGGCTGTCTCCGTGTCCTC
 CGTCTCAGTTGTTTCTCCCTCTCTATCCTCTGTCTCAGTCTCCCAGCCTTGGGGCCGTGCCTCTT
 CCGGGCTTCGGCAATGAGACCTGCGGACCTGCCCCGCGCCCCATGGAAGAATCCCGCGCTCCAGCTC
 TGCCCCGACAGAGACGGAGGAGCCGGGTCAGTGCAGAGGTCATGGAAGAAGTGACAACATGCTCCTTC
 AACAGCCCTCTGTTCCGGCAGGAAGATGACAGAGGGATTACCTACCGGATCCCAGCCCTGCTCTACATAC
 CCCCCACCCACACCTTCCCTGGCCTTTCAGAGAAGCGTCCACAGGAGAGATGAGGATGCTCTCCACCT
 GGTGCTGAGGCGAGGGTTGAGGATTGGGCACTTGGTACAGTGGGGGCCCTGAAGCCACTGATGGAAGCC
 AACTACCGGGGCATCGGACCATGAACCCTGTCTGTATGGGAGCAGAAGAGTGGTTGTGTGTTCTGT
 TCTTACATCTGTGTGCGGGGCCATGTACAGAGCGTCAACAGATTGTGTGAGGCAGGAATGCTGCCCGCT
 TTGCTTACATACAGTCAAGTGTGGTGTTCATGGAGTGGGTGAGGGACTTGACTGAGGAGGTCATT
 GGCTCAGAGCTGAAGCACTGGCCACATTTGCTGTGGGCCAGGTCATGGCATCCAGCTGCAGTCAGGGA
 GACTGGTCACTCCCTGCGTATACCTACTACATCCCTTCTGGTTCTTTTGTCTCCAGTACCATGTA
 AACAGCCCTCATTCTCTGATGATCTACAGTGTGACCTAGGGGTACATGGCACCATGGTAGACTCATTAGG
 CCCATGGTTACAGTAGAATGTGAAGTGGCAGAGGTGACTGGGAGGGCTGGCCACCCTGTGCTATATTGCA
 GTGCCCGGACACCAACAGGTGCCGGCAGAGGCGCTCAGCACTGACCATGGTGAAGGCTTTCAGAGACT
 GGCCCTGAGTCGACAGCTCTGTGAGCCCCACATGGTTGCCAAGGGAGTGTGGTAAGTTTCCGGCCCTG
 GAGATCCACATAGGTGCCAGGACTCTAGCAGCAAAGTGCACCCACCATTACAGCAGAGCTCTCCAGGCA
 GTTCACTGAGGCTGGAGGAGGAAGCTGGAACACCGTCAGAATCATGGCTCTTGTACTCACACCAACCG
 TAGGAAACAGAGGTTGACCTAGGTATCTATCTCAACCAGACCCCTTGGAGGCTGCCTGCTGGTCCCGC
 CCCTGGATCTTGACTGTGGCCCTGTGGCTACTCTGATCTGGCTGCTCTGGAGGAGGAGGCTTGTGTTG
 GGTGTTTGTGTAATGTGGGACCAAGCAAGAGTGTGAGCAGATTGCCTTCCGCCTGTTTACACACGGGA
 GATCCTGAGTCACCTGCAGGGGGACTGCACCAGCCCTGGTAGGAACCAAGCCAATTCAAAAGCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216537 representing NM_006656
 Red=Cloning site Green=Tags(s)

MLWTSQPF CRVPSEAGNLCSTLRLSREALGGDTELQTNIRARGCGTEERRRPLGTEVGPGLLELSWRGWRW
 CRSHAVVGTLELRAGGRGSAEGAGRERARGVQRLAPTADYSLRPPLFVAVTCFRQSTRSSLLGACLRVL
 RLSCFSLSILLCLSLPSLGAGASSGLRRMRPADLPPRPMEE SPASSAPTETEEPGSSAEVMEVTTCSF
 NSPLFRQEDDRGITYRIPALLYIPPTHFLAFAEKRSTRRDEDALHLVLRRLRIGQLVQWGPLKPLMEA
 TLPGHRTMNPVWEQKSGCVLFFICVRGHVTERQQIVSGRNAARLCFIYSQDAGCSWSEVRDLTEEVI
 GSELKHWATFAVGPHGIIQLQSGRLVIPAYTYIIPSWFFCFQLPCKTRPHSLMIYSDDLGVTWHHGRILR
 PMVTVECEVAEVTGRAGHPVLYCSARTPNRCRAEALSTDHGEQFRLALSRQLCEPPHGCQGSVVSFRPL
 EIPHRQDSSSKDAPTIQQSSPGSSLRLEEEAGTPSESWLLYSHPTSRKQVRDLGIYLNQTPLEAACWSR
 PWILHCGPCGYSDLAALEEEGLFGCLFECGKQECEQIAFRLFTHREILSHLQGDCTSPGRNPSQFKSN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006656

ORF Size: 1887 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_006656.4](#), [NP_006647.2](#)

RefSeq Size: 3540 bp

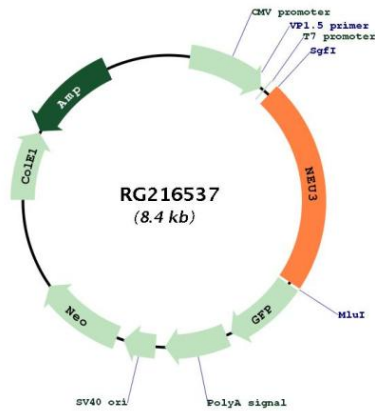
RefSeq ORF: 1386 bp

Locus ID: 10825

UniProt ID: [Q9UQ49](#)

Cytogenetics:	11q13.4
Domains:	BNR
Protein Pathways:	Other glycan degradation, Sphingolipid metabolism
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 RG216537