

Product datasheet for **RG219858**

NEU2 (NM_005383) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NEU2 (NM_005383) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NEU2
Synonyms: SIAL2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219858 representing NM_005383
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCCTTCTGTCTGCAGAAGGAGAGCGTGTTCCAGTCGGGAGCCCATGCCTACAGAATCCCTG
CCCTGCTCTACCTGCCTGGGCAGCAGTCCCTGCTGGCCTTCGCGAACAGCGGCAAGCAAGAAGGATGA
GCACGCAGAGCTGATTGTCTGCGCAGAGGAGACTACGACGCACCCACCCAGGTTTCAGTGGCAAGCT
CAGGAGGTGGTGGCCAGGCCCGGCTGGATGGCCACCGGTCCATGAACCCATGCCCTTGTATGACGCGC
AGACGGGGACCTCTTCTCTTTCATTGCCATCCCTGGGCAAGTCACGGAGCAACAGCAGCTGCAGAC
CAGGGCCAATGTGACGCGCTGTGCCAAGTCACCAAGTCCAGCAGTACCACGGGAGGACCTGGAGCTCCCCAGA
GACCTCACTGATGCGGCCATCGGCCAGCCTACCGGGAGTGGTCCACCTTTCAGTGGGCCCGGGCATT
GTTTGCAGCTAACGACAGGGCCCGGAGCCTGGTGGTGGCCCGCCTACGCCTACCGGAAATTCACCCCAT
CCAAAGGCCGATCCCCTCTGCCTTCTGCTTCTCAGCCATGACCATGGGCGCACGTGGGCGGAGGGCAC
TTTGTGGCCAGGACACCCTGGAGTGCCAGGTGGCCGAAGTCGAGACTGGGAGCAGAGGGTGGTGAACC
TCAACGCGAGAAGCCACCTCCGAGCCAGGTCCAGGCCAGAGCACCATGACGGCTTGATTTCCAGGA
GTCTCAGCTGGTGAAGAAGCTGGTGGAGCCGCCAGGGCTGCCAGGGGAGCGTCATCAGCTTCCCC
AGCCCCGCTCGGGCCTGGCTCCCCAGCCAGTGGCTGCTCTACACTCACCCACACACTCCTGGCAGA
GGGCCGACTGGGTGCCTACCTCAACCCGCGACCTCCAGCCCCTGAGGCCTGGTCAGAGCCGGTACTGCT
GGCCAAGGCAGCTGTGCCTACTCAGACCTCCAGAGCATGGGCACCGCCCTGATGGGTCCCCCTTGT
GGGTGTCTGTACGAAGCCAATGATTACGAGGAGATTGTCTTTCTCATGTTACCCTGAAGCAAGCCTTCC
CAGCTGAGTACCTGCCTCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219858 representing NM_005383
 Red=Cloning site Green=Tags(s)

```
MASLPVLQKESVVFQSGAHAYRIPALLYLPGQQSLLAFAEQRASKKDEHAELIVLRRGDYDAPTHQVQWQA
QEVVAQARLDGHRSMNPCPLYDAQTGTLFLFFIAIPGQVTEQQQLQTRANVTRLCQVTSTDHGRTWSSPR
DLTDAAI GPAYREWSTF AVGPGHCLQLNDRARSLVVPAYAYRKLHPIQRPISAF CFLSHDHGRTWARGH
FVAQDTLEQCVAEVETGEQRVVTLNARSHLRARVQAQSTNDGLDFQESQLVKKLVEPPPQCGQSSVISFP
SPRSGPGSPAQWLLYTHPTHSWQRADLGAYLNRPPPAPEAWSEP VLLAKGSCAYSDLQSMGTGPDGSPLF
GCLYEANDYEEIVFLMFTLTKQAFPAEYLPQ
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005383

ORF Size: 1140 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_005383.1](#), [NP_005374.1](#)

RefSeq Size: 1143 bp

RefSeq ORF: 1143 bp

Locus ID: 4759

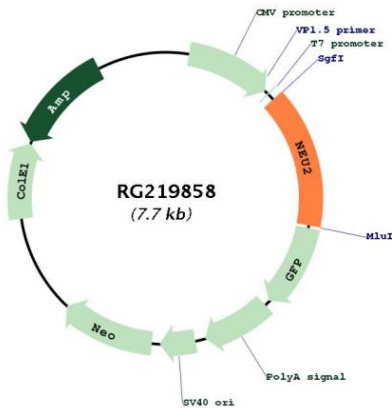
UniProt ID: [Q9Y3R4](#)

Cytogenetics: 2q37.1

Protein Pathways: Other glycan degradation, Sphingolipid metabolism

Gene Summary: This gene belongs to a family of glycohydrolytic enzymes which remove sialic acid residues from glycoproteins and glycolipids. Expression studies in COS7 cells confirmed that this gene encodes a functional sialidase. Its cytosolic localization was demonstrated by cell fractionation experiments. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219858