

Product datasheet for **RG235994**

Neuritin (NRN1) (NM_001278710) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Neuritin (NRN1) (NM_001278710) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Neuritin
Synonyms: dj380B8.2; NRN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235994 representing NM_001278710.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGACTTAAGTTGAACGGCAGATATATTTCACTGATCCTCGCGGTGCAAATAGCGTATCTGGTGCAG
GCCGTGAGAGCAGCGGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGGACTGTTTGCTCAAGCTGGGC
GACAGCATGGCCAACTACCCGCAGGGCCTGGACGACAAGACGAACATCAAGACCGTGTGCACATACTGG
GAGGATTTCCACAGCTGCACGGTCACAGCCCTTACGGATTGCCAGGAAGGGGCGAAAGATATGTGGGAT
AAACTGAGAAAAGAAATCCAAAAACCTCAACATCCAAGGCAGCTTATTGAACTCTGCGGCAGCGGCAAC
GGGGCGCGGGTCCCTGCTCCCGCGTCCCGGTGCTCCTGGTGTCTCTCGGCAGCTTAGCGACC
TGGCTTTCCTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235994
Blue=ORF Red=Cloning site Green=Tag(s)

```
MGLKLNTRYISLILAVQIAYLVQAVRAAGKCDAVFKGFSDCLLKLGDSMANYPQGLDDKTNIKTVCTYW
EDFHSCVTALTDCQEGAKDMWDKLRKESKNLNIQGSLELFCGSGNGAAGSLLPAFPVLLVLSAALAT
WLSF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001278710

ORF Size: 426 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).

RefSeq: [NM_001278710.1](#), [NP_001265639.1](#)

RefSeq Size: 1574 bp

RefSeq ORF: 429 bp

Locus ID: 51299

UniProt ID: [Q9NPD7](#)

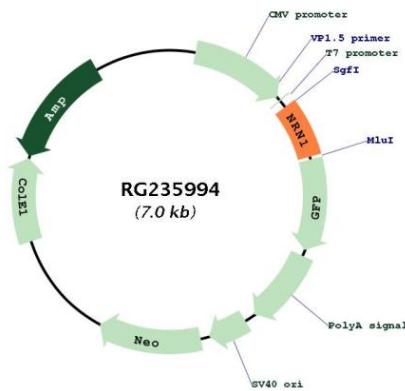
Cytogenetics: 6p25.1

MW: 15.3 kDa

Gene Summary:

This gene encodes a member of the neuritin family, and is expressed in postmitotic-differentiating neurons of the developmental nervous system and neuronal structures associated with plasticity in the adult. The expression of this gene can be induced by neural activity and neurotrophins. The encoded protein contains a consensus cleavage signal found in glycosylphosphatidylinositol (GPI)-anchored proteins. The encoded protein promotes neurite outgrowth and arborization, suggesting its role in promoting neuritogenesis. Overexpression of the encoded protein may be associated with astrocytoma progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RG235994