

Product datasheet for RC235994

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: Myc-DDK
Symbol: Neuritin
Synonyms: dj380B8.2; NRN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC235994 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGGACTTAAGTTGAACGGCAGATATATTTCACTGATCCTCGCGGTGCAAATAGCGTATCTGGTGCAGG
 CCGTGAGAGCAGCGGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGGACTGTTTGTCAAGCTGGGCGA
 CAGCATGGCCAACTACCCGACGGCCTGGACGACAAGACGAACATCAAGACCGTGTGCACATACTGGGAG
 GATTTCCACAGCTGCACGGTACAGCCCTTACGGATTGCCAGGAAGGGGGCAAAGATATGTGGGATAAAC
 TGAGAAAAGAATCAAAAACCTCAACATCCAAGGCAGCTTATTCGAACTCTGCGGCAGCGGCAACGGGGC
 GCGGGGTCCCTGCTCCCGCGTTCCTGGTGTCTCTCGGCAGCTTAGCGACCTGGCTT
 TCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235994 protein sequence
 Red=Cloning site Green=Tags(s)

MGLKLNTRYISLILAVQIAYLVQAVRAAGKCDVFKGFSDDLKLGDSMANYPQGLDDKTNIKTVCTYWE
 DFHSCTVTALTDCEGAKDMWDKLRKESKNLNIQGSFELCGSGNGAAGSLLPAFPVLLVLSAALATWL
 SF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6023_f11.zip



Restriction Sites: SgfI-MluI

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).

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_001278710.1](#), [NP_001265639.1](#)

RefSeq Size: 1574 bp

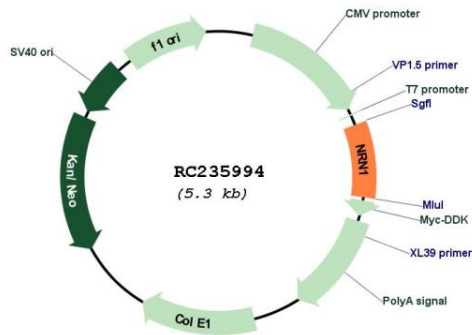
RefSeq ORF: 429 bp

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 RC235994