

Product datasheet for RC236226

Neuritin (NRN1) (NM_001278711) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Neuritin (NRN1) (NM_001278711) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NRN1
Synonyms: dj380B8.2; NRN
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236226 representing NM_001278711
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGATCGCC

ATGGCCACAGCCGCGCGCCCGCAGCCTGACCACTCATCATCCGCGCCAGGTCTCAGGACGTCCAGGCTGC
 CCTCTTCCAGCGGGGGGAGAGGGTGCATCCGAGGGTCTCACTCGAATACAGAGTCCACGCGTATCT
 GGTGCAGGCCGTGAGAGCAGCGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGACTGTTTGCTCAAG
 CTGGGCGACAGCATGGCCAACCTACCCGCAAGGCGCTGGACGACAAGACGAACATCAAGACCGTGTGCACAT
 ACTGGGAGGATTTCCACAGCTGCACGGTACAGCCCTTACGGATTGCCAGGAAGGGGCGAAAGATATGTG
 GGATAAAGTGAAGAAAGAATCCAAAACCTCAACATCCAAGGCAGCTTATTCGAACTCTGCGGCAGCGGC
 AACGGGGCGCGGGTCCCTGCTCCCGGCTTCCCGGTGCTCCTGGTGTCTCTCTCGGCAGCTTTAGCGA
 CCTGGCTTTCCTTC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236226 representing NM_001278711
 Red=Cloning site Green=Tags(s)

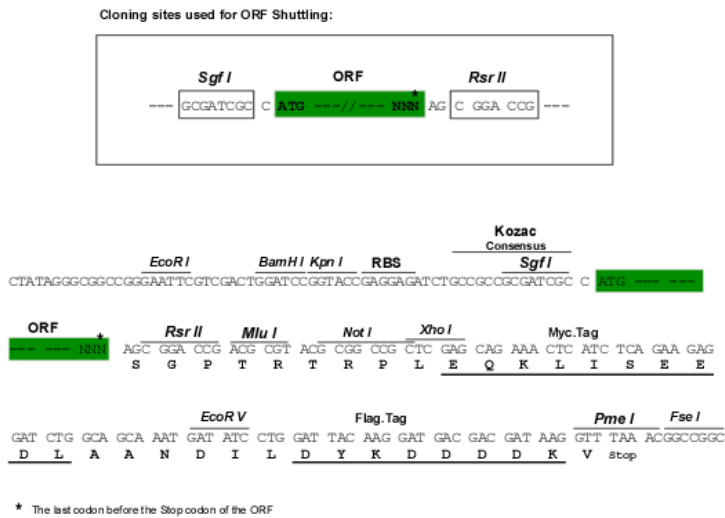
MATAARQPDPHSSAPGLRTRSLPSFQRRGRCIRGSHSEYRVHAYLVQAVRAAGKCDVFKGFSDDLK
 LGDSMANYPQGLDDKTNIKTVCTYWEDFHSCVTALTDCQEGAKDMWDKLRKESKLNLIQGSFELCGSG
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SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

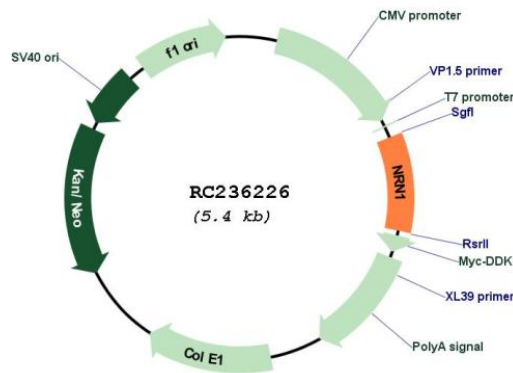
Restriction Sites: SgfI-RsrII



Cloning Scheme:



Plasmid Map:



ACCN: NM_001278711

ORF Size: 504 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:	<ol style="list-style-type: none">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:	<u>NM_001278711.1</u> , <u>NP_001265640.1</u>
RefSeq Size:	1813 bp
RefSeq ORF:	507 bp
Locus ID:	51299
UniProt ID:	<u>Q9NPD7</u>
Cytogenetics:	6p25.1
MW:	18.6 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]