

## Product datasheet for **SC114185**

### Neuritin (NRN1) (NM\_016588) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuritin (NRN1) (NM_016588) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuritin
Synonyms:	dj380B8.2; NRN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114185 sequence for NM_016588 edited (data generated by NextGen Sequencing)

```
ATGGGACTTAAGTTGAACGGCAGATATATTTCACTGATCCTCGGGTGCAAATAGCGTAT
CTGGTGCAGGCCGTGAGAGCAGCGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGGAC
TGTTTGCTCAAGCTGGGCGACAGCATGGCCAACACTACCCGAGGGCCTGGACGACAAGACG
AACATCAAGACCGTGTGCACATACTGGGAGGATTTCCACAGCTGCACGGTCACAGCCCTT
ACGGATTGCCAGGAAGGGGCGAAAGATATGTGGGATAAACTGAGAAAAGAATCCAAAAAC
CTCAACATCCAAGGCAGTTATTTCGAACCTGCGGCAGCGGCAACGGGGCGGGGGTCC
CTGCTCCCGCGTTCCCGGTGCTCCTGGTGTCTCTCGGCAGCTTAGCGACCTGGCTT
TCCTTCTGA
```

Clone variation with respect to NM\_016588.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_016588 unedited  
 ACGACTCACTATAGGCGGCCCGGAATTCGCACGAGGCTCTCTCTCTTTCTGTCTCTT  
 CCTCGCTCCCTCTCTTTCTCTCCCTCTGCCTTCCCAGTGCATAAAGTCTCTGTCTGCT  
 CCCGGAAGTGTGGCAATGCCTATTTTTGGCTTTCCCCCGGTTCTCTAAACTAACTA  
 TTTAAAGTCTGCGGTGCAAAATGGTTTACTAAACGTAGGATGGGACTTAAGTTGAACG  
 GCAGATATATTTCACTGATCCTCGCGGTGCAAAATAGCGTATCTGGTGCAGGCCGTGAGAG  
 CAGCGGGCAAGTGCATGCGGTCTTCAAGGGCTTTTCGGACTGTTTGTCTCAAGCTGGGCG  
 ACAGCATGGCCAACACCCGCAGGGCCTGGACGACAAGACGAACATCAAGACCGTGTGCA  
 CATACTGGGAGGATTTCCACAGCTGCACGGTACACGCCCTTACGGATTGCCAGGAAGGGG  
 CGAAAGATATGTGGGATAAACTGAGAAAAGAATCCAAAAACCTCAACATCCAAGGCAGCT  
 TATTCGAAGTCTGCGGCAGCGCAACGGGGCGNGCGGGGTCCTGCTCCCGGCGTTCCCG  
 GTGCTCTGGTGTCTCTCGGCAGCTNTAGCGACCTGGCTTTCCTTCTGGAGCGTGGGG  
 CCCAGCTCCCCCGNGCGCCACCCACACTCACTCCATGCTCCCGGAAATCGAGAGGAAG  
 ATCCATTAGTTCTTGGNGAACGTTGTGATTCTCTGTGATGCTGAAACACTCATATAGGA  
 TGTGGGAATCCTGATCTCTTTTATTTCGNTGATTTCTTGGGTTTATTTGCCAATGTTACC  
 CATCAGTGAGCAGCAGCCAGCCAAATCGACCTAACTTTTATCCGGCTCCACCAATAGAAA  
 CGCAACACCTTTTTNATTATATAATAAATTTTTTNGGAAAATTCAGGACGGCGTGGC  
 CCTACTTTAAAAGCTGACAGAAGAAGGTCCCAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_016588 unedited  
 GGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCAAACAATAACTTTTATTTTA  
 TACTTCTATACTTTGTAGCAAATCTTTTTTGTCTGAATTTAATTTATAATAAACTTTT  
 TAAATTACATCTCTCTCTTTTTTTTTTAAAATCAAGGCTCTTTTATGTCAAATCTTTT  
 TTTAGCTATATTTAAATTAACATTTAACATCCCCCCTTGTGATCTATACCGTTGGATA  
 TTCAGGTATTACTGTGTGTGAACAGCTAAAACAAGAGGGAGGAGGAAAATAAAGGCAG  
 TGAAGTTGGACGGATGCATCAACAACAGCAGATAAAGCTAACCCTCAGTGACCATAGCA  
 GCATGTCTTCTGGAAGCCTTTACTCTTACCCAGAGATTTCTCAGCCCCCTTCCCTCTCT  
 CCCTCCTATCCTCAAACACAAAGCCAACAGTCTGTCCTTTTCGTTTTCTTGAGGAGAAA  
 TGTGCAGTGGAAATGATCAAAAACAAGATACTGTGGAAGAACGACGTGAGCGTGAATTATT  
 CACCGTATGTTTCGTCCGTGGACATCTCTTGAATTCATTCCCCTGGCCTTCTCCTCTC  
 CTCGCCTTCTATTAGGAGGAGCCATCATTTTTTATGTTACTAGCATGATTAATATAGT  
 AGGTGGCCAGGGCCCTTCTGAGATTCTTTTGCCAACANAAAAAATAATAATAATAAA  
 ATTAATAAATGGGGTGGGTTTGCCGTNTTCTTATTTGTGTGTGAAGACGGACCTAAAGCT  
 GAGTCCCGATTTGGCTGNGCCTGCTTGCTCACCTGATGGAACATTTTGGCAATAACACCA  
 GAATCAACCGAATAAAAAGAGATCAGGATTTCCACATCCTATATGATGTCTCACATACAG  
 AGATCACACGTCCCAGACTATGGATCTCCTCTCATCCCGACATGATGATGTGNTGGCC  
 CCGNGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_016588

**Insert Size:**

1560 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_016588.2](#), [NP\\_057672.1](#)

**RefSeq Size:** 2072 bp

**RefSeq ORF:** 429 bp

**Locus ID:** 51299

**UniProt ID:** [Q9NPD7](#)

**Cytogenetics:** 6p25.1

**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]  
 Transcript Variant: This variant (1) encodes isoform 1. Both variants 1 and 2 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.