

## Product datasheet for **SC336829**

### Nicastrin (NCSTN) (NM\_001290186) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nicastrin (NCSTN) (NM_001290186) Human Untagged Clone
Tag:	Tag Free
Symbol:	NCSTN
Synonyms:	ATAG1874
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



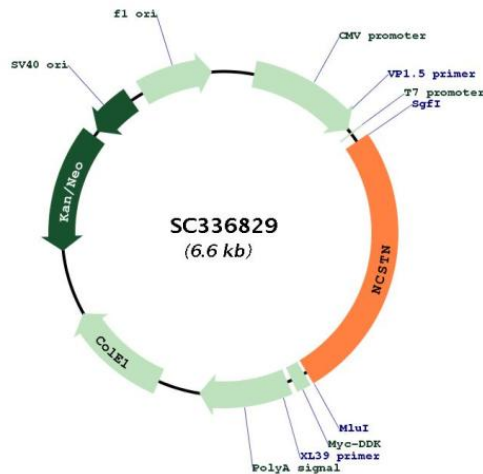
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Fully Sequenced ORF: >SC336829 representing NM\_001290186.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCTACGGCAGGGGTGGCTCTGGGGTGACCCGGGAAGTCGGGGTCTCCTTCGCTTCTGTCTTTC
TGCGTCCCTACTAGCAGGTTTGTGCAGGGGAAACTCAGTGGAGAGGAAGATATATATCCCCTAAATAAA
ACAGCTCCCTGTGTTCCCTGCTCAACGCCACTCATCAGATTGGCTGCCAGTCTTCAATTAGTGGAGAC
ACAGGGGTTATCCACGTAGTAGAAAAGAGGAGGACCTACAGTGGGTATTGACTGATGGCCCAACCCC
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CAGTGCCCAAATGATGGGTTTGGTGTACTCCAATTCCTATGGGCCAGAGTTTGTCTACTGCAGAGAA
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CTTGAGTTGATCACCTGACAGTGGCTTCGGCATCCTCATCTTCTCCCTCATCGTCACCTACTGCATC
AATGCCAAAGCTGATGTCCTTTTATTGCTCCCCGGGAGCCAGGAGCTGTGTACTGACG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM\_001290186

Insert Size: 1716 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001290186.1](#)

RefSeq Size: 2530 bp

RefSeq ORF: 1716 bp

Locus ID: 23385

UniProt ID: [Q92542](#)

Cytogenetics: 1q23.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease, Notch signaling pathway

MW: 63.3 kDa

**Gene Summary:**

This gene encodes a type I transmembrane glycoprotein that is an integral component of the multimeric gamma-secretase complex. The encoded protein cleaves integral membrane proteins, including Notch receptors and beta-amyloid precursor protein, and may be a stabilizing cofactor required for gamma-secretase complex assembly. The cleavage of beta-amyloid precursor protein yields amyloid beta peptide, the main component of the neuritic plaque and the hallmark lesion in the brains of patients with Alzheimer's disease; however, the nature of the encoded protein's role in Alzheimer's disease is not known for certain. Mutations in this gene are associated with familial acne inversa. A pseudogene of this gene is present on chromosome 21. Alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (3) lacks three alternate in-frame exons in the coding region compared to variant 1. The encoded isoform (3) is shorter than isoform 1.