

Product datasheet for **SC337208**

Nicastrin (NCSTN) (NM_001290184) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nicastrin (NCSTN) (NM_001290184) 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)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001290184, the custom clone sequence may differ by one or more nucleotides

```

ATGGACTTTAATCTCATTTTAAAAAGTTTGTGCAGGGGAACTCAGTGGAGAGGAAGATATATATCCCT
TAAATAAACAGCTCCCTGTGTTTCGCTGCTCAACGCCACTCATCAGATTGGCTGCCAGTCTTCAATTAG
TGGAGACACAGGGGTTATCCACGTAGTAGAGAAAGAGGAGACCTACAGTGGGTATTGACTGATGGCCC
AACCCCTTACATGGTTCTGCTGGAGAGCAAGCATTTTACCAGGATTTAATGGAGAAGCTGAAAAGGGA
GAACCAGCCGAATTGCTGGTCTTGCAGTGTCTTGACCAAGCCAGTCCCTGCCTCAGGCTTCTCTCTAG
TGTACAGTGCCAAATGATGGGTTTGGTGTACTCCAATTCCTATGGGCCAGAGTTTGCTCACTGCAGA
GAAATACAGTGAATTCGCTGGGCAATGGTTGGCTTATGAAGACTTTAGTTTCCCCTCTTTCTTCTTG
AAGATGAAATGAAACAAAGTCATCAAGCAGTGTATCAAGATCACAACCTGAGTCAGAATGGCTCAGC
ACCAACCTTCCCCTATGTGCCATGCAGCTCTTTTACACATGCATGCTGTCATCAGCACTGCCACCTGC
ATGCGGGCAGCTCCATCAAAGCACCTTCAGCATCAACCAGAAATCGTCTGTGACCCCTGTCTGATT
ACAATGTGTGGAGCATGCTAAAGCCTATAAATACAACCTGGGACATTAAGCCTGACGACAGGGTTGGT
TGCTGCCACCCGCTGGATAGTCGTTCTTTTCTGGAATGTGGCCCAGGGGCTGAAAGCGCAGTGGCT
TCCTTTGTCACCCAGCTGGCTGCTGCTGAAGCTTTGAAAAGGCACCTGATGTGACCACCTGCCCCGCA
ATGTACATGTTGTCTTCTTTCAAGGGGAACTTTTACTACATTGGCAGCTCGAGGATGGTCTACGATAT
GGAGAAGGGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTCATTGTGGAGCTGGGACAGGTGGCCTTA
AGAATTCATTAGAGCTTTGGATGCACACAGATCCTGTTTCTCAGAAAAATGAGTCTGTACGGAACCAGG
TGGAGGATCTCCTGGCCACATTTGGAGAAGAGTGGTGTGGTGTCCCTGCTGTCATCCTCAGGAGGCCAAA
TCAGTCCCAGCCTCTCCACCATCTTCCCTGCAGCGATTCTTCGAGCTCGAAACATCTCTGGCCTTGT
CTGGTGACCACTCTGGTGCCTTCCATAACAAATATTACCAGAGTATTTACGACACTGCTGAGAACATTA
ATGTGAGCTATCCCGAATGGCTGAGCCCTGAAGAGGACCTGAACCTTTGTAAACAGACACTGCCAAGGCCCT
GGCAGATGTGGCCACGGTGTGGGACGTCTGTATGAGCTTGCAGGAGGAACCAACTCAGCGACACA
GTTCAGGCTGATCCCAAACGGTTACCCGCTGCTCTATGGGTTCTGATTAAAGCCAACAACCTCATGGT
TCCAGTCTATCCTCAGGCAGGACCTAAGGTCTACTTGGGTGACGGGCTCTTCAACATTACATCGCTGT
CTCCAGCCCCACCAACCACTTATGTTGTACAGTATGCCTTGGCAAATTTGACTGGCACAGTGGTCAAC
CTCACCCGAGAGCAGTGCAGGATCCAAGTAAAGTCCCAAGTAAAACAAGGATCTGTATGAGTACTCAT
GGGTCCAGGGCCCTTGCATTCTAATGAGACGGACCGACTCCCCGGTGTGTGCGTTCTACTGCACGATT
AGCCAGGGCCTTGTCTCCTGCCTTTGAACTGAGTCAAGTGGAGCTCTACTGAATACTCTACATGGACTGAG
AGCCGCTGAAAAGATATCCGTGCCCGGATATTTCTCATGCCAGCAAAGAGCTTGAGTTGATCACCTGA
CAGTGGGCTTCGGCATCCTCATCTTCTCCCTCATCGTCACCTACTGCATCAATGCCAAAGCTGATGTCCT
TTTCATTGCTCCCGGGGACCCAGGAGCTGTGTCATGTA
    
```

Restriction Sites: SgfI-MluI

ACCN: NM_001290184

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_001290184.1](#), [NP_001277113.1](#)

RefSeq Size: 3083 bp

RefSeq ORF: 2070 bp

Locus ID: 23385

UniProt ID: [Q92542](#)

Cytogenetics: 1q23.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Alzheimer's disease, Notch signaling pathway

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 (2) has a different 5' structure resulting in translation initiation at an alternate AUG compared to variant 1; the 5'-most AUG, as used in variant 1, is associated with a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the alternate AUG resulting in a shorter isoform (2) with a distinct N-terminus compared to isoform 1.