

Product datasheet for **RC238935**

Nicastrin (NCSTN) (NM_001290186) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RC238935 representing NM_001290186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTACGGCAGGGGGTGGCTCTGGGGCTGACCCGGGAAGTCGGGGTCTCCTTCGCTTCTGTCTTTCT
 CGGTCTACTAGCAGGTTTGTGCAGGGGAACTCAGTGGAGAGGAAGATATATATCCCTTAAATAAAAC
 AGCTCCCTGTGTTTCGCTCAACGCCACTCAGATTGGCTGCCAGTCTCAATTAGTGAGACACA
 GGGGTTATCCACGTAGTAGAAAAGAGGAGACCTACAGTGGGTATTGACTGATGGCCCCAACCCCTT
 ACATGGTTCTGCTGGAGAGCAAGCATTTTACCAGGGATTAATGGAGAAGCTGAAAGGGAGAACCAGCCG
 AATTGCTGGTCTGCAGTGTCTTGACCAAGCCAGTCTGCCTCAGGCTTCTCTCTAGTGTACAGTGC
 CCAATGATGGGTTTGGTGTACTCCAATTCCTATGGCCAGAGTTTGTCTACTGCAGAGAAATACAGT
 GGAATTCGCTGGCAATGGTTTGGCTTATGAAGACTTTAGTTTCCCATCTTTCTTCTTGAAGATGAAA
 TGAACCAAAGTCATCAAGCAGGAACTTTTACTACATTGGCAGCTCGAGGATGGTCTACGATATGGAG
 AAGGGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTCATTGTGGAGCTGGGACAGGTGGCCTTAAAG
 CTTCAATTAGAGCTTTGGATGCACACAGATCCTGTTTCTCAGAAAATGAGTCTGTACGGAACCAGGTGGA
 GGATCTCTGGCCACATTGGAGAAGAGTGGTGTGGTGTCCCTGCTGTCATCCTCAGGAGGCCAAATCAG
 TCCCAGCCTCTCCACCATCTTCCCTGCAGGATTTCTCGAGCTCGAAACATCTCTGGCCTTGTCTCG
 CTGACCACTCTGGTGCCTTCCATAACAAATATTACCAGAGTATTTACGACACTGCTGAGAACATTAATGT
 GAGCTATCCCGAATGGCTGAGCCCTGAAGAGGACCTGAACCTTGTAAACAGACACTGCCAAGGCCCTGGCA
 GATGTGGCCACGGTGTGGGACGTGCTGTATGAGCTTGACAGGAGGAACCAACTCAGCGACACAGTTC
 AGGCTGATCCCCAAACGGTTACCCGCCTGCTCTATGGGTTCTGTATTAAGCCAACAACATCATGGTTCCA
 GTCTATCCTCAGGCAGGACCTAAGGTCCTACTTGGGTGACGGCCCTTCAACATTACATCGCTGTCTCC
 AGCCCCACCAACACCACTTATGTTGTACAGTATGCCTTGGCAAATTTGACTGGCAGAGTGGTCAACCTCA
 CCCGAGAGCAGTGCCAGGATCCAAGTAAAGTCCCAAGTAAAACAAGGATCTGTATGAGTACTCATGGGT
 CCAGGGCCCTTTGCATTCTAATGAGACGGACCGACTCCCCGGTGTGTGCGTTTACTGCACGATTAGCC
 AGGGCCTTGTCTCTGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 GCTGAAAAGATACCGTGCCCGGATATTCTCATCGCCAGCAAAGAGCTTGAGTTGATCACCTGACAGT
 GGGCTTCGGCATCTCATCTTCTCCCTCATCGTCACTACTGCATCAATGCCAAAGCTGATGTCCTTTTC
 ATTGCTCCCCGGGAGCCAGGAGCTGTGCATAC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238935 representing NM_001290186
 Red=Cloning site Green=Tags(s)

MATAGGGSGADPGSRGLLRLLSFCVLLAGLCRGNVSVERKIYIPLNKTAPCVRLLNATHQIGCQSSISGDT
 GVIHVVEKEEDLQWVLDGPNPPYMVLLLESKHFTRDLMELKGRTSRIAGLAVSLTKPSPASGFSPSVQC
 PNDGFGVYSNSYGPFAHCREIQWNSLGNLAYEDFSFPILFLEENETKVIKQETFDYIGSSRMVYDME
 KGKFPVQLENVDSFVELGQVALRTSLELWMHTDPVSQKNESVRNQVEDLLATLEKSGAGVPVILRRPNQ
 SQPLPPSSLQRFLRARNISGVVLADHSGAFHNKYYQSIYDTAENINVSYPEWL SPEEDLNFVDTAKALA
 DVATVLRALYELAGGTNFSDTVQADPQTVTRLLYGFLIKANNSWFQSILRQDLRSYLDGGLQHYIAVS
 SPTNTTYVVQYALANLTGTVVNL TREQCQDPSKVPSKNDL YEYSWVQGPLHSNETDRLPRCVRSTARLA
 RALSPAFELSQWSSTEYSTWTESRWKDIRARIFLIASKELELITLVGFGILIFSLIVTYCINAKADVLF
 IAPREPGAVSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	NM_001290186.2
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:	63.8 kDa
Gene Summary:	<p>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]</p>