

## Product datasheet for **RG238935**

### 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:	TurboGFP
Symbol:	NCSTN
Synonyms:	ATAG1874
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG238935 representing NM\_001290186.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTACGGCAGGGGTGGCTCTGGGGTGACCCGGGAAGTCGGGGTCTCCTTCGCTTCTGTCTTTC
TGCGTCCCTACTAGCAGGTTTGTGCAGGGGAAACTCAGTGGAGAGGAAGATATATATCCCTTAAATAAA
ACAGTCCCTGTGTTTCGCTGCTCAACGCCACTCATCAGATTGGCTGCCAGTCTTCAATTAGTGGAGAC
ACAGGGGTTATCCACGTAGTAGAAAAGAGGAGGACCTACAGTGGGTATTGACTGATGGCCCAACCCC
CCTTACATGGTTCTGCTGGAGAGCAAGCATTTTACCAGGGATTTAATGGAGAAGCTGAAAGGGAGAACC
AGCCGAATTGCTGGTCTTGCAGTGTCTTGACCAAGCCAGTCTGCCTCAGGCTTCTCTCTAGTGTA
CAGTGCCCAAATGATGGGTTTGGTGTACTCCAATTCCTATGGGCCAGAGTTTGTCTACTGCAGAGAA
ATACAGTGAATTCGCTGGCAATGGTTTGGCTTATGAAGACTTAGTTTCCCATCTTTCTTCTTGA
GATGAAAATGAAACCAAGTCATCAAGCAGGAACTTTTGACTACATTGGCAGCTCGAGGATGGTCTAC
GATATGGAGAAGGCAAGTTTCCCGTGCAGTTAGAGAATGTTGACTCATTGTGGAGCTGGGACAGGTG
GCCTTAAGAACTTCATTAGAGCTTTGGATGCACACAGATCCTGTTTCTCAGAAAAATGAGTCTGTACGG
AACCAGGTGGAGGATCTCCTGGCCACATTGGAGAAGAGTGGTGGTGTCCCTGCTGCATCCTCAGG
AGGCCAAATCAGTCCCAGCCTCTCCACCATCTTCCCTGCAGCGATTTCTTCGAGCTCGAAACATCTCT
GGCGTTGTTCTGGCTGACCACCTCTGGTGCCTTCCATAACAAATATTACCAGAGTATTTACGACACTGCT
GAGAACATTAATGTGAGCTATCCCGAATGGCTGAGCCCTGAAGAGGACCTGAACCTTGTAAACAGACT
GCCAAGGCCCTGGCAGATGTGGCCACGGTGTGGGACGTGCTCTGTATGAGCTTGACAGGAGAACCAAC
TTCAGCGACACAGTTCAGGCTGATCCCCAAACGGTTACCCGCCTGCTCTATGGGTTCTGATTAAGCC
AACACTCATGGTCCAGTCTATCCTCAGGCAGGACCTAAGGCTCCTACTGGGTGACGGCCCTTCAA
CATTACATCGCTGTCTCCAGCCCCAACACCACTTATGTTGTACAGTATGCCTTGGCAAATTTGACT
GGCACAGTGGTCAACCTCACCCGAGAGCAGTGCCAGGATCCAAGTAAAGTCCCAAGTAAAAACAAGGAT
CTGTATGAGTACTCATGGGTCCAGGGCCCTTTCATTCTAATGAGACGGACCGACTCCCCGGTGTGTG
CGTTCTACTGCACGATTAGCCAGGGCCTTGTCTCCTGCCTTTGAACTGAGTCAAGTGGAGCTACTGAA
TACTCTACATGGACTGAGAGCCGCTGAAAAGATATCCGTGCCCGGATATTTCTCATCGCCAGCAAAGAG
CTTGAGTTGATCACCTGACAGTGGCTTCGGCATCCTCATCTTCTCCCTCATCGTCACCTACTGCATC
AATGCCAAAGCTGATGTCCTTTTATTGCTCCCCGGGAGCCAGGAGCTGTGCATAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238935  
 Blue=ORF Red=Cloning site Green=Tag(s)

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MATAGGGSGADPGSRGLLRLLSFCVLLAGLCRGNVERKIYIPLNKTAPCVRLLNATHQIGCQSSISGD
TGVIVHVEKEEDLQWVLTDPNPPYMLLESKHFTRDLMEKLGRTSRIAGLAVSLTKPSPASGFSV
QCPNDGFGVYSNSYGPEFAHCREIQWNSLGNLAYEDFSFPIFLEDENETKVIKQETFDYIGSSRMVY
DMEKGFQVQLENVDSFVELGQVALRSLLELWMHTDPVSQKNESVRNQVEDLLATLEKSGAGVPAVILR
RPNQSQPLPPSSLQRFLRARNISGVVLAHSGAFHNKYYQSIYDTAENINVSYPEWLSPEEDLNFTVDT
AKALADVATVLRALYELAGGTNFSDTVQADPQTVTRLLYGFLIKANNWFQSIQRDLRSYLDGGLQ
HYIAVSSPTNTTYVVQYALANLTGTVVNLTREQCQDPSKVPSENKDLYEYSWVQGPLHSNETDRLPRCV
RSTARLARALSPAFELSQWSSTEYSTWTESRWKDIRARIFLIASKELELITLTVGFILIFSLIVTYCI
NAKADVLFIAPREPGAVSY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDHMFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001290186.2</a>
<b>RefSeq Size:</b>	2530 bp
<b>RefSeq ORF:</b>	1716 bp
<b>Locus ID:</b>	23385
<b>UniProt ID:</b>	<a href="#">Q92542</a>
<b>Cytogenetics:</b>	1q23.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease, Notch signaling pathway
<b>MW:</b>	63.8 kDa
<b>Gene Summary:</b>	<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>