

Product datasheet for **SC312668**

RTN3 (NM_201429) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTN3 (NM_201429) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTN3
Synonyms:	ASYIP; HAP; NSPL2; NSPLI; RTN3-A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_201429 edited
ATGGCGGAGCCGTCGGCGGCCACTCAGTCCCATTCCATCTCCTCGTCGTCCTTCGGAGCC
GAGCCGTCGCGCCCGGGCGGGAGCCAGGAGCCTGCCCGCCCTGGGACGAAG
AGCTGCAGCTCCTCCTGTGCGGATTCCTTTGTTTCTCCTCTCCTCAGCCTGTATCT
CTATTTTCGACCTCACAAGTGCACGATCTGATTTCTGGAGAGATGTGAAGAAGACTGGG
TTTGTCTTTGGACACGCTGATCATGCTGCTTTCCCTGGCAGCTTTCAGTGTCATCAGT
GTGGTTTCTTACCTCATCCTGGCTCTTCTCTGTCAACATCAGCTTCAGGATCTACAAG
TCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGAC
GTAGACATTACTCTGTCTCAGAAGCTTCCATAATTACATGAATGCTGCCATGGTGCAC
ATCAACAGGGCCCTGAACTCATTATTCGTCTCTTCTGGTAGAAGATCTGGTTGACTCC
TTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTTGGTGTGTTTTAACGGAATC
ACCCTTCTAATTCTGTGAACTGCTCATTTTCAGTGTCCCGATTGTCTATGAGAAGTAC
AAGACCCAGATTGATCACTATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTTGAA
AAGATCCAAGCAAACTCCCTGGAATCGCCAAAAAAGGCAGAAATA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_201429 unedited TGAACCCCACTTTACTATAGGCGGCCGCAATTCGCACGAGGGTCCCTCGGAGCAGGCGG AGTAAAGGGACTTGAGCGAGCCAGTTGCCGGATTATTCTATTTCCCTCCCTCTCTCCCG CCCCGTATCTCTTTTACCCTTCTCCACCCTCGCTCGGTAGCCATGGCGGAGCCGTGCG GCGGCCACTCAGTCCCATTCCATCTCCTCGTCCTTCGGAGCCGAGCCGTCCGCGCCC GGCGCGGGGGAGCCCAGGAGCCTGCCCGCCCTGGGGACGAAGAGCTGCAGCTCCTCC TGTGCGGATTCTTTGTTTCTTCTCTTCTCCTCTCAGCCTGTATCTATTTTTCGACCTCA CAAGTGCACGATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACC ACGCTGATCATGTGCTTTCCCTGGCAGCTTTCAGTGTCATCAGTGTGGTTTCTTACCTC ATCCTGGCTCTTCTCTGTCCACATCAGCTTCAGGATCTACAAGTCCGTCATCCAAGCT GTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATTACTCTG TCCTCAGAAGCTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGGCCCT GAAACTCATTATTCGTCTCTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGT CTTCATGTGGCTGATGAACCTATGTGGTGTGTTNTTAACGGAATCACCTTCTAATNCT TGCTGAACTGCTCATTNTCAGTGTCCCATTGTCTATGAAAGTACAAGACCAGATTGATC ACTATGTTGCATGCCCCGAGACAGACCAGTCATTGTTGAAAAGACCAAGCAAACCT
Restriction Sites:	Please inquire
ACCN:	NM_201429
Insert Size:	2500 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_201429.1.
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:	<u>NM_201429.1, NP_958832.1</u>
RefSeq Size:	2668 bp
RefSeq ORF:	768 bp
Locus ID:	10313
UniProt ID:	<u>O95197</u>
Cytogenetics:	11q13.1
Protein Families:	Transmembrane

Gene Summary:

This gene belongs to the reticulon family of highly conserved genes that are preferentially expressed in neuroendocrine tissues. This family of proteins interact with, and modulate the activity of beta-amyloid converting enzyme 1 (BACE1), and the production of amyloid-beta. An increase in the expression of any reticulon protein substantially reduces the production of amyloid-beta, suggesting that reticulon proteins are negative modulators of BACE1 in cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, and pseudogenes of this gene are located on chromosomes 4 and 12. [provided by RefSeq, May 2012]

Transcript Variant: This variant (3) includes an alternate exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (c) is longer than isoform a.