

## Product datasheet for **SC108563**

### RTN3 (NM\_006054) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RTN3 (NM_006054) 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 within SC108563 sequence for NM_006054 edited (data generated by NextGen Sequencing)

```
ATGGCGGAGCCGTCGGCGGCCACTCAGTCCCATTCCATCTCCTCGTCGTCCTTCGGAGCC
GAGCCGTCCGCGCCCGGCGGCGGGAGCCCAGGAGCCTGCCCGCCCTGGGGACGAAG
AGCTGCAGCTCCTCCTGTGCGGTGCACGATCTGATTTTCTGGAGAGATGTGAAGAAGACT
GGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTCCCTGGCAGCTTTCAGTGTATC
AGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTCAGGATCTAC
AAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTG
GACGTAGACATTACTCTGCCTCAGAAGCTTCCATAATTACATGAATGCTGCCATGGTG
CACATCAACAGGGCCCTGAAACTCATTATTCGTCTCTTCTGGTGAAGATCTGGTTGAC
TCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTTGGTGCTGTTTTAACGGA
ATCACCCTTCTAATTCTTGTGAACTGCTATTTTCAGTGTCCCGATTGTCTATGAGAAG
TACAAGACCCAGATTGATCACTATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTT
GAAAAGATCCAAGCAAACTCCCTGGAATCGCCAAAAAAAAGGCAGAATAA
```

Clone variation with respect to NM\_006054.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006054 unedited  
 GACCTTGGATTTTGTAAACCGACTTACTATAGGGNCGGCACGCGCAATTCGGCACGAGGGT  
 CAGTCAGTCTGTCCGAGTCTGGTCTCGGACAGGCGGAGTAAAGGGACTTGAGCGAGCCA  
 GTTGCCGATTATTCTATTTCCCTCCCTCTCTCCCGCCCGTATCTCTTTTACCCCTTC  
 TCCCACCTCGCTCGCTAGCCATGGCCGAGCCGTCCGCGGCCACTCAGTCCCATTCCAT  
 CTCTCTGTCTGCTTTCGGAGCCGAGCCGTCCGCGCCCGGCGCGGGAGCCAGGAGC  
 CTGCCCCGCCCTGGGACGAAGAGCTGCAGCTCCTCCTGTGCGGTGCACGATCTGATTTT  
 CTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATGCTGCTTTC  
 CCTGGCAGCTTTCAGTGTATCAGTGTGGTTTCTTACCTCATCCTGGCTTCTCTCTGT  
 CACCATCAGTTCAGGATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGG  
 CCATCCATTCAAAGCCTACCTGGACGTAGACATTACTGTCTCAGAAGCTTTCATAA  
 TTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATTATTCGTCTCT  
 TCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTA  
 TGTGGTGTCTTTTTAACGGAATCACCTTCTAATTCTTGTGAACTGCTCATTTTCAG  
 TGTCCTGATTGTCTATGAGAAGTACCAGACCCAGATTGATCACTATGTTGGCATCGCCCG  
 AGATCAGACCAAGTCAATTGNTGAAAAGATCCCAGCANNACTCCTGGNATCGCCAAAAAA  
 AGGCAGNNATAGTACATGGAACCCAGAATGCN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006054 unedited  
 AGCTTGTACGCGCCGCAATTTANAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGTTTTTTT  
 TTTTTTATTAATACCACATCAATTTGAAATTTTACAGGAACCAAGATTCAAGCTCCTTAG  
 GGGCTACTGTATTTTTATGTTGCACGCACAGACACGTACACACAGTTTCATTAGTAATTT  
 TTCATCTATAGGTTTTTCTTAAAAAAAAAAAAATCCTGTGTGGCACAAAGATCTCTTCA  
 ATTATCTAAACACAGCAGCAACAAAAGAAAAGAACTGGATGTGGCACTTCCACTGCAAAA  
 GGTCTTTTGGAGGGGAAGCCCAAAAAGACAATCACTGACTTCTGGGAGGGCAAAGGATG  
 AGGATGGAAAAATGCACTTCTACTAGGACATGAAACCAGTTAAAACACTCAAAGGGGGCT  
 AAGAAAATAAGATGGAGTAAGGCAAGGGTACCTTTTACCCATCCAATTCCTAATAATT  
 TTTCCAAGACACGTAGACAATTTCTTCCACTACTTTTTGCAGCTGCCGACTTTGGGAC  
 CATCAAATATCATAGCCCTTACTTTAACTCGCCAGTGCATATCCCTCTGAAGGATCAT  
 GACTATGAGTGAAGAACTGAAGGAACTCACAGATGATTTTTCTTTCAAGTTCGCTGAATT  
 CTCATATTTGAAGTGAAGAAAAAACTTGCCCCAAATGGGAAATCGAGATTTGAATCTC  
 GGGAAAAGATCAAGAAAAAAGGCTTCTGTATTTACCTCTTGAGAAATGTTCCCCCAG  
 ACTGAGATAGGATCCCAAAAACCTAATAACTGGAGGAGCCACATGCACGGTTATTTTTTT  
 CTCTAACCAAGTTTACAGCAGTGCACAGCAGTTACAGACATTTATTTTTAGTAAAAAAGTT  
 CACCTTTTTTTTAACTTGAGGTGGCCAGGAAAGGTAGAAACCCATTN

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006054

**Insert Size:**

2620 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006054.2</a> , <a href="#">NP_006045.1</a>
<b>RefSeq Size:</b>	2583 bp
<b>RefSeq ORF:</b>	711 bp
<b>Locus ID:</b>	10313
<b>UniProt ID:</b>	<a href="#">O95197</a>
<b>Cytogenetics:</b>	11q13.1
<b>Domains:</b>	Reticulon
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform a.</p>