

Product datasheet for **SC332812**

RTN3 (NM_001265591) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RTN3 (NM_001265591) Human Untagged Clone
Tag: Tag Free
Symbol: RTN3
Synonyms: ASYIP; HAP; NSPL2; NSPLI; RTN3-A1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332812 representing NM_001265591.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGCGGAGCCGTCGGCGGCCACTCAGTCCCATTCCATCTCCTCGTCGTCTTCGGAGCCGAGCCGTC  
GCGCCCGCGCGCGGGAGCCAGGAGCCTGCCCGCCCTGGGACGAAGAGCTGCAGCTCCTCTGT  
GCGGTGCACGATCTGATTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATC  
ATGCTGCTTCCCTGGCAGCTTTCAGTGTTCATCAGTGTGGTTTCTTACCTCATCTGGCTCTTCTCTCT  
GTCACCATCAGCTTCAGGATCTACAAGTCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCA  
TTCAAACCCAGATTGATCACTATGTTGGCATCGCCCGAGATCAGACCAAGTCAATTGTTGAAAAGATCC  
AAGCAAACTCCCTGGAATCGCCAAAAAAGGCAGAATAAGTACATGGAACCAGAAATGCAACAGTT  
ACTAAAACACCATTTAATAGTTATAACGTCGTTACTTGTACTATGAAGGAAAATACTCAGTGTGAGCTT  
GAGCCTGCATTCCAAGCTTTTTTTTTTAATTTGGTGTCTTCTCCCATCTTCCCTTAACCTCAGTAT  
CAAGCACAAAATTGATGGACTGA
```

Restriction Sites: SgfI-MluI
ACCN: NM_001265591
Insert Size: 645 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).



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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_001265591.1](#)

RefSeq Size: 2332 bp

RefSeq ORF: 645 bp

Locus ID: 10313

UniProt ID: [O95197](#)

Cytogenetics: 11q13.1

Protein Families: Transmembrane

MW: 23.5 kDa

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 (7) lacks three consecutive exons in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (g) is shorter and has a distinct C-terminus, compared to isoform a.