

Product datasheet for **SC112981**

Reticulon 1 (RTN1) (NM_021136) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reticulon 1 (RTN1) (NM_021136) Human Untagged Clone
Tag:	Tag Free
Symbol:	Reticulon 1
Synonyms:	NSP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112981 sequence for NM_021136 edited (data generated by NextGen Sequencing)

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ATGGCCGCGCCGGGGATCCGCAGGACGAGCTGCTGCCGCTGGCCGGCCCCGGGTCCCAG
TGGCTCAGGCACCGGGGGAGGGGGAGAACGAAGCGGTGACGCCGAAAGGGGCCACGCCG
GCGCCGCAAGCTGGGGAGCCAGCCCGGGTGGGCGCCAGGGCCCGGAAGCGGCGTCG
CGGAAGCCGGCTCGGGCCCCCGCCGAGTCGCCGTTGCCATGGAACTGCATCCACA
GGTGTGGCAGGTGTTCCAGTGCCATGGACCACACCTTCTCAACAACATCAAAGATGGG
GAAGGATCGTGTTACACATCTCTATTTCTGACATCTGCTATCCACCTCAGGAGGATTCT
ACATATTTTACTGGAATTCTTCAGAAGGAAAATGGCCACGTCACCATTTAGAGAGCCCT
GAGGAGCTGGGTACACCCGGCCCTCCTTACCAGATGTGCCTGGGATAGAGTCTCGTGGC
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AACCAAAGTCTCGGCCACAAAGGCCCTGGGCCTCTAGGTCTGGCGCCCCGCCCA
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GGCCTGACCCCTGCTGCTCATGGCTGTGGTTTCAATGTTTACTCTACCTGTAGTGTATGTT
AAGCACCAGGCACAGATTGACCAATATCTGGGACTTGTGAGGACTCACATAAATGCTGTT
GTGGCAAAGATTGAGGCTAAAATCCCAGGCGCTAAGAGGCACGCTGAGTAA
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Clone variation with respect to NM_021136.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_021136 unedited GCACTATTTTGTAAACGAACTCACTATAGGGCGGCCGGAATTCGCACGAGGCGGCGAC GCTGAGACACCGCAGCTTCCCTGAGCGCCGAGTCCCTCCGGGGACAGCAGAGGGAGCGC CCGCGCAGCCACCGAGCCTCTGCCAGCAAGCCGCCGTGCGCGCCGGGGGACCGCCA GCCATGGCCGCGCCGGGGATCCGCAGGACGAGCTGCTGCCGTGGCCGGCCCGGGTCC CAGTGGCTCAGGACCGGGGGAGGGGAGAACGAAGCGGTGACGCCGAAAGGGCCACG CCGCGCCGACAGCTGGGGAGCCAGCCCGGGTGGCGCCAGGCGCCGGGAAGCGCG TCGCGGGAAGCCGCTCGGGCCCGCCCGCAGTCGCCCGTTGCCATGGAAACTGCATCC ACAGGTGTGGCAGGTGTTTCCAGTGCCATGGACCACACCTTCTCAACAACATCAAAAGAT GGGGAAGGATCGTGTTACACATCTCTATTCTGACATCTGCTATCCACCTCAGGAGGAT TCTACATATTTTACTGGAATTCTCAGAAGGAAAATGGCCACGTCAACATTTAGAGAGC CCTGNAGAGCTGGGTACACCCGGCCCTCCTTACCAGATGTGCCTGGGATAGAGTCTCGT GGCTTATTTAGTCTGATTCTGGAATAGAGATGACTCCTGCCGAGTCCACGGGAGTGAAC AAGATCTTAGCAGACCTCTGGACCAGATGAAAGCAGAGGCTATAATACATTGACCTAC CCGACCCAGAAGTGAAGCCCCAGAACAACCTACCCCGAGCTGAAGATAAGACTTGAACC TTTAGAATAAGAACTGACCTCTCAATTAACCTGAAGAGCCGGGAACCGACAACAGCTCC TGTGTAGGAAAAAAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_021136 unedited GCACTTCTATATCGAGTTTTTTTTTTTTTTTTTTGGATTATTTCATTTATTTAATTATTT TAAGTTATACAAAAGTATTACCATAAGTGCGGTGCGACTGCTTTTATTTTACGTTGAGT GTGTTGGAAAAATGCTAAAACATCAGTCTACAATTCTATATATTGGTATTAAGATTAAT CCAACCAGCAACCAAGGACATATAAGCGATTTCCACTATTGCATCAGAGCACTCGGCAG GAAAGGCCTATCCACGGGGAACATTAGAAGCTACAGAAGCATTGCAGAGAAGAGAAGAAG AACACCGAAGAGGGAAAGATAAATTGGGCTCTCACCATCATGCATTTTTTTAGCAACAC AAAATTAACCAACATCTAATACACTTTTCTCTATACTTTAGTGGGTGACACAAGTGAC TCAAAATCCTAAGAGTACAAGGAACAGCCTAAAAACAGCTGTTTTAAGGTTTGTCTCTA AGATTATGGCACTGGAGGGAGGGGGAAAGACAATCAATTTGCAGTAATGAGTAAGAAGA GAGCTGTTACCACTCCAGACATTCCTGTTTGTGTGCAGTCCCCGGTGGGAAATCAGTTTA CTCAGCTGCCTCTTATCGCCTGAGATTTTAGCCTGAATCCTTGCCACAACAGCATTTAT GTGAGTCCTTACAGCTCCAGATATTGGCAATCTGTGCTGGAGCTTACATACACTACAGG AGAGGAAACATTGAACCATCCTGATCATCAGGTCAGCCATTGAAAAAGCCCCACGCAG GCCGAGCCCCCTCAGACCGCAATTTTAAGAACCCCAAGTCCCTGCAAAGAAGACCCCC TCAGATCTAGAGGGCCGTACGGAAACGGCAGGAGCCCGCCTCTTGATTGGTCCGGAA AGGGGATCAAGCCAAAAGCCTGAAGGGTGCCCCCGCTTGCCTGCTGAAAACAATCG TAACCGACCGGGG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_021136
Insert Size:	3270 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).

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_021136.2](#), [NP_066959.1](#)

RefSeq Size: 3327 bp

RefSeq ORF: 2331 bp

Locus ID: 6252

UniProt ID: [Q16799](#)

Cytogenetics: 14q23.1

Domains: Reticulon

Protein Families: Transmembrane

Gene Summary: This gene belongs to the family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. This gene is considered to be a specific marker for neurological diseases and cancer, and is a potential molecular target for therapy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2011]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (A, also known as NSP-A).