

Product datasheet for **SC321971**

Reticulon 2 (RTN2) (NM_206901) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reticulon 2 (RTN2) (NM_206901) Human Untagged Clone
Tag:	Tag Free
Symbol:	Reticulon 2
Synonyms:	NSP2; NSPL1; NSPLI; SPG12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC321971
 CCGAGCACAGGGCGGCGGCGGCGGCGGCGGCTGGAGCAGCCGGGAGGAGGAGGCG
 GCGAGAATGGCAGCGGCGTCTGTGGGCGCGGCGGAGATGAGCGCCCGGACCCCGGGCCCA
 GGGCGGCACAGCCGAGTGGGCGGGGTCCCGATGCAGGCCCGAGGGGGCCATGGGGCA
 GGTCTGCCGGTCTTCGCCACTGCAAAGAAGCTCCGTCTACAGCCTCTCAACTCTGA
 TTCCACAGAAGGAGGGAACGACGACTCCGATTTTCGAGAGCTGCACACAGCCCGGAATT
 CTCAGAGGAGACGAGGAGGAGACCAGTCCGAGGACTGGGGCACCCCGGGAGCTGAC
 TTCTCTACATCGCCTTTGATGGTGTAGTGGGCTCCGGGGCCCGAGGATTCAACTGC
 CCGCCGCCCGCCCGAGGCCGCTCAGTCTCGGAACACGAGACCAGACCCTCAGCC
 CAGCCTGGGCGACAGCTTGAGAGCATCCCCAGCCTGAGCCAATCCCGGAGCCTGGACG
 ACGGGGTGATCTGACACCGCGCTCCATCCGAGCGCCCTCTGGAAGACCTGAGGCTTCG
 GTTGACCATCTGGGCTGGTGGCCCGGGAACGGGATCCGGGGAGGACTCTCCACCAG
 CAGCTCCACCCCGCTGGAAGACGAAGAACCCCAAGAACCAACAGATTGGAGACAGGAGA
 AGCTGGGAAGAAGTGGACCTACGACTCCGACTTGCTCAGCCCTCATCGCCGAGGTCTT
 GACTCCCAGCTCAGTCCGGGCTCTGGGACACCCAGGCCGACTCCGTCCCCATCCCG
 ATCGCGAGATTCGAACTCTGGGCCCGAAGAGCCATTGCTGGAAGAGGAAGAAAAGCAGTG
 GGGGCCACTGGAGCGAGAGCCAGTAAGGGGACAGTGCCTCGATAGCACGGACCAATTAGA
 ATTCACGGTGGAGCCACGCTTCTAGGAACAGCTATGGAATGGTTAAAGACATCATTGCT
 TTTGGTGTTTACAAGACGGTTCCAATTTTGAATTGTCCCCACCTCTGTGGACGCCAT
 TGGCTGGGTCAAAGGGGCCACCCCCCTACTCCTGTCTCCGGTCTACTGAAGTG
 GGCAAAATCCCGGAGAAGCAGCGGTGTCCCAGCCTCTACTCGGAGCCGATATGGGGAG
 TAAAGTGGCGGACCTGCTGTACTGGAAGACACGAGGACGTCAGGAGTGGTCTTCACAGG
 CCTGATGGTCTCCCTCCTGCTCCTGCACTTTAGCATCGTGTCCGTGGCCGCGCACTT
 GGCTCTGTGTCTGCTCTGCGGCACCATCTCTCAGGGTTTACCGCAAAGTGTGCAGGC
 CGTGCACCGGGGGATGGAGCCAACCTTTCCAGGCCTACCTGGATGTGGACCTACCCCT
 GACTCGGGAGCAGACGGAACGTTTGTCCCACCAGATCACCTCCCGCGTGGTCTCGGCGGC
 CACGCAGCTGCGGCACTTCTTCTGGTAGAAGACCTCGTGGATTCCCTCAAGCTGGCCCT
 CCTCTTACATCTTGACCTTCGTGGGTGCCATCTTCAATGGTTTGACTTTCTCATTCT
 GGGAGTGATTGGTCTATTCACCATCCCCCTGCTGTACCGGCAGCACCAGGCTCAGATCGA
 CCAATATGTGGGGTTGGTGACCAATCAGTTGAGCCACATCAAAGCTAAGATCCGAGCTAA
 AATCCCAGGGACCGGAGCCCTGGCCTTTGCAGCAGCCGAGTCTCCGGATCCAAAGCCAA
 AGCCGAATGAGAACGGTGTCTCTGCCCGCAGGACGCTGCCCCAGCCCCGCGAGCCCTC
 TGGCCCCCTCCATCTCTTGTCCGTTCCACCCACCCCTCCTCGGCCCGAGCCTTTTCC
 CGGTGGGTGTGAGGATCACTCCCACTAGGGACTCTGCGCTAATTACCTGAGCGACCAAGGA
 CTACATTTCCCAAGAGGCTCTGCTCCAGGAGTCCAGGAAAGACGAGGCACCTTGGCCGCG
 GGGCCTGCTGGGACTTGTAGTTGCTAGACAGGGCACCACCTGCACTTCCGGACCCGCC
 GCTGGAGGCGCCGTGAGGCGTTGGTGTCTCCTGGATGCTACTAGCCCCAACGCCGGGCT
 TTGCATGGGGCCAGGGGAGGCTGAGCTTGGATTTACTGTAATAAAGACTCCTGTGG
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_206901

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_206901.1](#), [NP_996784.1](#)

RefSeq Size: 1113 bp

RefSeq ORF: 618 bp

Locus ID: 6253

UniProt ID: [O75298](#)

Cytogenetics: 19q13.32

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. Reticulon proteins also play an important role in the replication of positive-strand RNA (ssRNA) viruses. Mutations at this locus have been associated with autosomal dominant spastic paraplegia-12. [provided by RefSeq, Aug 2020]
 Transcript Variant: This variant (3) differs in the 5' UTR and the 5' coding region, compared to variant 1. The resulting isoform (C) has a shorter N-terminus when compared to isoform A, and is presumably transcribed from an internal promoter.