

Product datasheet for **SC116639**

Reticulon 2 (RTN2) (NM_005619) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reticulon 2 (RTN2) (NM_005619) Human Untagged Clone
Tag:	Tag Free
Symbol:	Reticulon 2
Synonyms:	NSP2; NSPL1; NSPLI; SPG12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005619, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCAGGTCCTGCCGGTCTTCGCCACTGCAAAGAAGCTCCGTCTACAGCCTCCTCAACTCCTGATT
CCACAGAAGGAGGGAACGACGACTCTGATTTTCGAGAGCTGCACACAGCCCGGAATTCTCAGAGGAGGA
CGAGGAGGAGACCAGTGCAGGACTGGGGCACCCCCGGGAGCTGACCTTCTCCTACATCGCCTTTGAT
GGTGTAGTGGGCTCCGGGGCCGAGGGATTCAACTGCCCGCCGCCCGCCCCAGGGCCGCTCAGTCT
CGGAACCACGAGACCAGCACCTCAGCCAGCCTGGGCGACAGCTTGAGAGCATCCCCAGCCTGAGCCA
ATCCCCGAGCCTGGACGACGGGTGATCCTGACACCGCGCTCCATCCGAGCGCCTCTGGAAGACCTG
AGGCTTCGGTTGGACCATCTGGGCTGGGTGGCCGGGGAACGGGATCCGGGGAGGACTTCCACCAGCA
GCTCCACCCCGCTGGAAGACGAAGAACCCCAAGAACCAACAGATTGGAGACAGGAGAAGCTGGGAAGA
ACTGGACCTACGACTCCGACTTGCTCAGCCCTCATCGCCCGAGGCTTGACTCCCAGCTCAGTCCGGGC
TCTGGGACACCCAGGCCGTA TCCGTCCCCATCCCGATCGCGAGATTGAACTCTGGGCCGAAGAGC
CATTGCTGGAAGAGGAAGAAAAGCAGTGGGGGCCACTGGAGCGAGAGCCAGTAAGGGGACAGTGCCTCGA
TAGCACGGACCAATTAGAATTACGGTGGAGCCAGCCTTCTAGGAACAGCTATGGAATGGTTAAAGACA
TCATTGCTTTTGGCTGTTTACAAGACGGTTCCAATTTTGGAAATGTCACCTCTGTGGACAGCCATTG
GCTGGGTCAAAGGGGCCACCCCTACTCCTGTCTCCGGTTCTACTGAAGTGGGCAAAATCCCC
GAGAAGCAGCGGTGTCCCAGCCTCTACTCGGAGCCGATATGGGGAGTAAAGTGGCGGACCTGTGTAC
TGGAAAGCACGAGGACGTCAGGAGTGGTCTTACAGGCCGATGGTCTCCCTCCTCTGCCTCCTGCACT
TTAGCATCGTGTCCGTGGCCGCGCACTTGGCTCTGTTGCTGCTCTGCGGCACCATCTCTCAGGGTTTA
CCGCAAAGTGTGCAGGCCGTGCACCGGGGGATGGAGCCAACCTTTCCAGGCCACTTGATGTGGAC
CTCACCTGACTCGGGAGCAGCGGAAGTTTGTCCCACAGATCACCTCCCGCTGGTCTCGGCCGCCA
CGCAGCTGCGGCCTTCTTCTGGTAGAAGACCTCGTGGATTCCCTCAAGCTGGCCCTCCTCTTCTACAT
CTTGACCTTCGTGGGTGCCATCTCAATGGTTTACTTCTCATTCTGGGAGTGATTGGTCTATTACC
ATCCCCCTGCTGTACCGCAGCACCAGGCTCAGATCGACCAATATGTGGGGTTGGTGACCAATCAGTTGA
GCCACATCAAAGCTAAGATCCGAGCTAAAATCCCAGGGACCGGAGCCCTGGCCTCTGCAGCAGCCGAGT
CTCCGGATCCAAAGCCAAAGCCGAATGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005619 unedited

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GATCTTTGGATTTGTAATACGACTTATCTATAGGGCGGCCGGAATTCGCACGAGGTCTC
GTCGTGGGCGCGGCGGAGATGAGCGCCCGCAGCCCGGGCCAGGGCGGCACAGCCGGAG
TGGGCGGGGGTCCCGATGCAGGCCCGAGGGGGCCATGGGGCAGGTCTGCCGGTCTTCG
CCCCTGCAAAGAAGCTCCGTCTACAGCCTCCTCAACTCCTGATTCCACAGAAGGAGGGA
ACGACGACTCTGATTTTCGAGAGCTGCACACAGCCCGGAATTCTCAGAGGAGGACGAGG
AGGAGACCACGTCGAGGACTGGGGCACCCCCGGGAGCTGACCTTCTCCTACATCGCCT
TTGATGGTGTAGTGGGCTCCGGGGCCGAGGGATTCAACTGCCCGCCGCCCGCCCC
AGGGCCGCTCAGTCTCGGAACCAGAGACCAGCACCTCAGCCAGCCTGGGCGACAGCT
TGGAGAGCATCCCAGCCTGAGCCAATCCCCGAGCCTGGACGACGGGTGATCCTGACA
CCGCGCCTCCATCCGAGCGCCTCTGGAAGACCTGAGGCTTCGGTTGGACCATCTGGGCT
GGGTGGCCCGGGAAACGGGATCCGGGGAGGACTTCCACCAGCAGCTCCACCCCGCTGG
AAGACGAAGAACCCCAAGAACCAACAGATTGGAGACAGGAGAAGCTGGGAAGAAGTGG
ACCTACGACTCCGACTTGCTCAGCCCTCATCGCCCGAGTCTTGACTCCCAGCTCAGTC
CGGGCTCTGGGGACACCCAGCCGTA TCCGTCCCCATCCCGATCGCGAGATTGAACT
CTGGGCCGAAGAGCCATTTGCTGNAAGAGAAGAAAGCAGTGGGGCCACTGGAGCGAGA
GCAGTNAGGNGACGTGCCTCGATACCCGAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005619 unedited GACCCGCGCCGCAATCTAGTGTGCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCGGGGTTT TCCACAGGGAGTCTTTATTACAGGGTAAATCCAAGCTCAGGCCTCCCCTGGGCCCCATGC AAAGCCCCGGCGTTGGGGCTAGTAGCATCCAGGAGACACCAACGCCTCACGGCGCCTCCA GCGGGCGGTCCGGAAGTGCAGGGTGGTGCCTGTCTAGGCAACTACAAGTCCCAGCAGGC CCCAGCGCAAGGTGCCTCGTCTTCTGGACTCCTGGAGCAGAGCCTCTGGGAAATGT AGTCCTGGTCGCTCAGGTAATTAGCGCAGAGTCCCTATTGGGAGTGATCCTGACACCCAC CGGAAAAGGCTCGGGCCGAGGAGGGGGTGGTGGGAACGGACAAGATATGGAGGGGGC CATAGGGCTGCGGGGGCTGGGGGAGGCCTCTGCGGGCAGAGACACCGTTCTCATTTCGG CTTTGGCTTTGGATCCGGAGACTGCGGTGCTGCAGAGGCCAGGGCTCCGGTCCCTGGGA TTTTAGCTCGGATCTTAGCTTTGATGTGGCTCAACTGATTGGTCACCAACCCACATATT GGTCGATCTGAGCCTGGTGTGCCGTACAGCAGGGGGATGGTGAATAGACCAATCACTC CCAGAATGAGAAGAGTCAAACCATTGAAGATGGCACCCACGAAGGTCAAGATGTAAAAGA GGATGGCCAGCTTGAGGGAATCCACGAGGTCTTCTACCANGATNATTGCCGCATCTGCGT GGCCGCCGATACCACGCGGGAGGTGATCTGGTGGGACAAACGTTCCGTCTGCTTCCGAGT AGGGTGGAGTCCCATCCAGGTAGCCTGAAAGGGTTGGCTATTCCCCGGGGGGCGGCT GAAGACTTTGCGGTAACCTGAAAATATAGGGCCAAAAANAACAGACCATTGCCCGGCC GACCCATGCTAATGCGGGGGCAAGGAGAGACCTTAGCTTGGAAAC
Restriction Sites:	NotI-NotI
ACCN:	NM_005619
Insert Size:	1960 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in <i>E. coli</i> 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
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:	NM_005619.3 , NP_005610.1

RefSeq Size: 2317 bp

RefSeq ORF: 1638 bp

Locus ID: 6253

UniProt ID: [O75298](#)

Cytogenetics: 19q13.32

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. 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 (1) represents the longest transcript, and encodes the longest isoform (A).