

Product datasheet for **SC309827**

Reticulon 2 (RTN2) (NM_206900) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reticulon 2 (RTN2) (NM_206900) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTN2
Synonyms:	NSP2; NSPL1; NSPLI; SPG12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_206900, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCAGGTCTGCCGGTCTTCGCCACTGCAAGAAGCTCCGCTACAGCCTCTCA
ACTCCTGATTCCACAGAAGGAGGAACGACGACTCTGATTTTCGAGAGCTGCACACAGCC
CGGAATTCTCAGAGGAGACGAGGAGGAGACCAGTCGACGAGACTGGGGCACCCCGG
GAGCTGACCTTCTCCTACATCGCCTTTGATGGTGTAGTGGGCTCCGGGGCCGCAGGGAT
TCAACTGCCCCGCCCGCCCGCCAGGGCCGCTCAGTCTCGGAACCACGAGACCAGCAC
CCTCAGCCAGCCTGGGCGACAGCTTGGAGAGCATCCCCAGCCTGAGCCAATCCCCGGAG
CCTGGACGACGGGGTGTCTGACACCGCGCTCCATCCGAGCGCCTCTGGAAGACCTG
AGGCTTCGGTTGGACCATCTGGGCTGGGTGGCCGGGGAACGGGATCCGGGGAGGACTCT
TCCACCAGCAGCTCCACCCGCTGGAAGACGAAGAACCACAAGAACCAACAGATTGGAG
ACAGGAGAAGCTGGGGAAGAACTGGACCTACGACTCCGACTTGCTCAGCCCTCATCGCC
GAGGTCTTGACTCCCCAGCTCAGTCCGGGCTCTGGGACACCCAGGCCGGTACTCCGTCC
CCATCCCAGATCGCGAGATTCTGAAGTCTGGGCCCCGAAGAGCCATTGCTGGAAGAGGAAGAA
AAGCAGTGGGGGCCACTGGAGCGAGAGCCAGTAAGGGGACAGTGCCTCGATAGCACGGAC
CAATTAGAATTCACGGTGGAGCCACGCCTTCTAGTGGCGGACCTGCTGTACTGGAAGGAC
ACGAGGACGTGAGGAGTGGTCTTACAGGCCTGATGGTCTCCCTCCTCTGCCTCTGCAC
TTTAGCATCGTGTCCGTGGCCGCGCACTTGGCTCTGTTGCTGCTGCGGACCATCTCT
CTCAGGGTTTACCGCAAAGTGCTGCAGGCCGTGCACCGGGGGGATGGAGCCAACCCCTTC
CAGGCCTACCTGGATGTGGACCTCACCTGACTCGGGAGCAGACGAACGTTTGTCCCAC
CAGATCACCTCCCGCTGGTCTCGGGCGCCACGACGCTGCGGCACTTCTTCTGTTAGAA
GACCTCGTGGATTCCCTCAAGCTGGCCCTCCTCTTCTACATCTTGACCTTCGTGGGTGCC
ATCTTCAATGGTTTACTCTTCTCATTCTGGGAGTGATTGGTCTATTACCATCCCCCTG
CTGTACCGGCAGCACCAGGCTCAGATCGACCAATATGTGGGGTTGGTGACCAATCAGTTG
AGCCACATCAAAGCTAAGATCCGAGCTAAAATCCCAGGGACCGGACCCCTGGCCTCTGCA
GCAGCCGACGTCTCCGGATCCAAAGCCAAAGCCGAATGA

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Restriction Sites:	Please inquire
ACCN:	NM_206900
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_206900.1 , NP_996783.1
RefSeq Size:	2100 bp
RefSeq ORF:	1419 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 (2) lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (B), that is missing an internal segment compared to isoform A.