

## Product datasheet for RC210086

### Reticulon 2 (RTN2) (NM\_206901) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Reticulon 2 (RTN2) (NM\_206901) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RTN2  
**Synonyms:** NSP2; NSPL1; NSPLI; SPG12  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC210086 representing NM\_206901  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGAGTAAAGTGGCGGACCTGCTGTACTGGAAGGACACGAGGACGTCAGGAGTGGTCTTCACAGGCC  
 TGATGGTCTCCCTCCTGCCTCTGCACTTTAGCATCGTGTCCGTGGCCGCGCACTTGGCTCTGTTGCT  
 GCTCTGCGGCACCATCTCTCAGGGTTTACCGCAAAGTGTGCAGGCCGTGCACCGGGGGGATGGAGCC  
 AACCCCTTCCAGGCCTACCTGGATGTGGACCTCACCTGACTCGGAGCAGACGGAACGTTGTCCACC  
 AGATCACCTCCCGCTGGTCTCGCGGGCCACGCAGCTGCGGCACTTCTCCTGGTAGAAGACCTCGTGGA  
 TTCCCTCAAGCTGGCCCTCCTCTTACATCTTGACCTTCGTGGGTGCCATCTTCAATGGTTGACTCTT  
 CTCATTCTGGGAGTGATTGGTCTATTCACCATCCCCTGCTGTACCGGCAGCACCAGGCTCAGATCGACC  
 AATATGTGGGGTTGGTGACCAATCAGTTGAGCCACATCAAAGCTAAGATCCGAGCTAAAATCCCAGGGAC  
 CGGAGCCCTGGCCTCTGCAGCAGCCGAGTCTCCGGATCCAAAGCCAAAGCCGAA

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC210086 representing NM\_206901  
 Red=Cloning site Green=Tags(s)

MGSKVADLLYWKDTRTSQVVFVGLMVSLLCLLHFSIVSVAHLALLLLCGTISLRVYRKVLQAVHRGDGA  
 NPFQAYLDVDLTLTREQTERLSHQITSRVVSAAATQLRHFFLVEDLVDSLKLLALLFYILTFVGAIFNGLTL  
 LILGVIGLFTIPLLYRQHQAQIDQYVGLVTNQLSHIKAKIRAKIPGTGALASAAAASVSGSKAKAE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

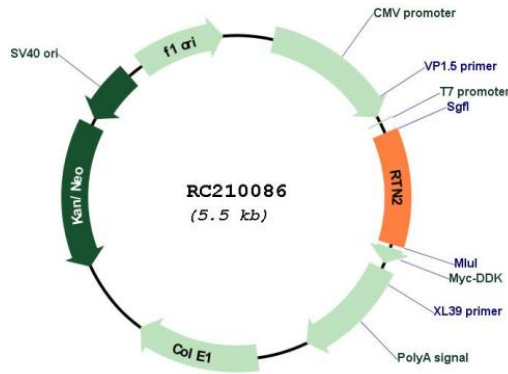


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_206901

ORF Size: 615 bp

**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](mailto: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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_206901.3](#)

**RefSeq Size:** 1111 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 6253

**UniProt ID:** [O75298](#)

**Cytogenetics:** 19q13.32

**Protein Families:** Transmembrane

**MW:** 22.3 kDa

**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]