

Product datasheet for **RG210086**

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: TurboGFP
Symbol: Reticulon 2
Synonyms: NSP2; NSPL1; NSPLI; SPG12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210086 representing NM_206901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAGTAAAGTGGCGGACCTGCTGTACTGGAAGGACACGAGGACGTCAGGAGTGGTCTTACAGGCC
 TGATGGTCTCCCTCCTGCCTCTGCCTTAGCATCGTGTCCGTGGCCGCGCACTTGGCTCTGTTGCT
 GCTCTGCGGCACCATCTCTCAGGGTTACCGCAAAGTCTGCAGGCCGTCACCGGGGGATGGAGCC
 AACCCCTTCCAGGCTACCTGGATGTGGACCTCACCTGACTCGGGAGCAGACGGAACGTTGTCCCACC
 AGATCACCTCCCGGTGGTCTCGGCGGCCACGCAGCTGCGGCACCTCTTCTGGTAGAAGACCTCGTGGA
 TTCCCTCAAGCTGGCCCTCCTTCTACATCTTGACCTTCGTGGGTGCCATCTTCAATGGTTGACTCTT
 CTCATTCTGGGAGTGATTGGTCTATTCACCATCCCCCTGCTGTACCGGCAGCACCAGGCTCAGATCGACC
 AATATGTGGGGTTGGTGACCAATCAGTTGAGCCACATCAAAGCTAAGATCCGAGCTAAAATCCCAGGGAC
 CGGAGCCCTGGCCTCTGCAGCAGCCGAGTCTCCGGATCCAAAGCCAAAGCCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210086 representing NM_206901
 Red=Cloning site Green=Tags(s)

MGSKVADLLYWKDTRTSGVVFTGLMVSLLLHFSIVSVAHLALLLLCGTISLRVYRKVLQAVHRGDGA
 NPFQAYLDVDLTLTREQTERLSHQITSRVVSAAQLRHFFLVEDLVDSLKALLFYILTFVGAIFNGLTL
 LILGVIGLFTIPLLYRQHQAIQYVGLVTNQLSHIKAKIRAKIPGTGALASAAAAVSGSKAKAE

TRTRPLE - GFP Tag - V

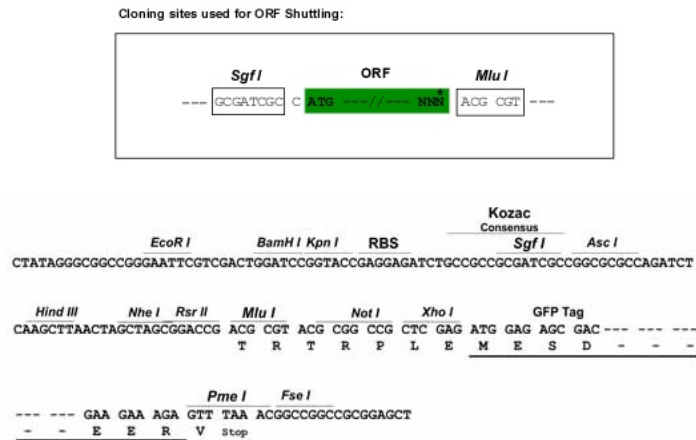
Chromatograms: https://cdn.origene.com/chromatograms/ja1954_c07.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



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 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

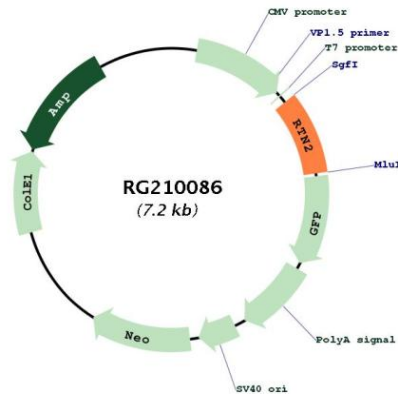
UniProt ID: [O75298](#)

Cytogenetics: 19q13.32

Protein Families: Transmembrane

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]

Product images:



Circular map for RG210086