

Product datasheet for **RG217235**

Reticulon 2 (RTN2) (NM_005619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reticulon 2 (RTN2) (NM_005619) 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)



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ORF Nucleotide Sequence:

>RG217235 representing NM_005619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCAGGTCCTGCCGTCTTCGCCACTGCAAAGAAGCTCCGTCTACAGCCTCTCACTCCTGATT
 CCACAGAAGGAGGAACGACGACTCCGATTTTCGAGAGCTGCACACAGCCCGGAATTCTCAGAGGAGGA
 CGAGGAGGAGACCAGTCGCGAGGACTGGGGCACCCCCGGGAGCTGACCTTCTCCTACATCGCCTTTGAT
 GGTGTAGTGGGCTCCGGGGCCGAGGGATTCAACTGCCCGCCGCCCGCCAGGGCCGCTCAGTCT
 CGGAACCACGAGACCAGCACCTCAGCCAGCCTGGGCGACAGCTTGAGAGCATCCCCAGCCTGAGCCA
 ATCCCCGAGCCTGGACGACGGGTGATCCTGACACCGCCCTCCATCCGAGCGCCTCTGGAAGACCTG
 AGGCTTCGGTTGGACCATCTGGGCTGGGTGGCCGGGGAACGGGATCCGGGGAGGACTCTCCACCAGCA
 GCTCCACCCCGCTGGAAGACGAAGAACCCCAAGAACCAACAGATTGGAGACAGGAGAAGCTGGGAAGA
 ACTGGACTACGACTCCGACTTGTCTAGCCCTCATCGCCGAGGTCTTGACTCCCAGCTCAGTCCGGGC
 TCTGGGACACCCAGGCCGACTCCGTCGCCATCCCGATCGCGAGATTGAACTCTGGGCCGAAGAGC
 CATTGCTGGAAGAGGAAGAAAAGCAGTGGGGGCCACTGGAGCGAGAGCCAGTAAGGGGACAGTGCCTCGA
 TAGCACGGACCAATTAGAATTCACGGTGGAGCCACGCCTTCTAGGAACAGCTATGGAATGGTTAAAGACA
 TCATTGCTTTGGCTGTTTACAAGACGGTTCCAATTTTGGAAATGTCACCCACTCTGTGGACAGCCATTG
 GCTGGGTCAAAGGGGCCACCCCTACTCCTGTCTCCGGTCTACTGAAGTGGGCAAAATCCCC
 GAGAAGCAGCGGTGTCCCAGCCTCTACTCGGAGCCGATATGGGGAGTAAAGTGGCGGACCTGCTGTAC
 TGAAGGACACGAGGACGTCAGGAGTGGTCTTACAGCCCTGATGGTCTCCCTCCTCTGCCTCCTGCCT
 TTAGCATCGTGTCCGTGGCCGCGCACTTGGCTCTGTTGCTGCTCTGCGGCACCATCTCTCAGGGTTTA
 CCGCAAAGTGCTGCAGGCCGTGCACCGGGGATGGAGCCAACCTTTCCAGGCCACTCTGGATGTGGAC
 CTCACCCTGACTCGGGAGCAGACGGAACGTTTGTCCCACAGATCACCTCCCGCTGGTCTCGGGGCCA
 CGCAGCTGCGGCCTTCTCCTGGTAGAAGACCTCGTGGATTCCCTCAAGCTGGCCCTCCTCTTCTACAT
 CTTGACCTTCGTGGTGCCATCTTCAATGGTTTACTCTTCTCATTCTGGGAGTGATTGGTCTATTACC
 ATCCCCCTGCTGTACCGGCAGCACCAGGCTCAGATCGACCAATATGTGGGGTGGTGACCAATCAGTTGA
 GCCACATCAAAGCTAAGATCCGAGCTAAAATCCCAGGGACCGGAGCCCTGGCCTTTCAGCAGCCGAGT
 CTCGGATCCAAAGCCAAAGCCGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217235 representing NM_005619
 Red=Cloning site Green=Tags(s)

MGQVLPVFAHCKEAPSTASSTPDSTEGGNDDSDFRELHTAREFSEEDDEEETTSQDWGTPRELTFSYIAFD
 GVVGSGRRDSTARRPRPQGRSVSEPRDQHPQPSLGDSLESIPSLSQSPEPGRRGDPDAPPSPERPLEDL
 RLRLDHLGWVARGTGSGEDSSSTSTPLEDEEPQEPNRLTGEAGEELDLRLRLAQSSPEVLTPLSPG
 SGTQPAGTSPSPSRSDNSGPEEPLLEEEKQWGPLEREPVRGQCLDSTDQLEFTVEPRLLGTAMEWLKT
 SLLLAIVYKTVPIELSPPLWTAIGWVQRGPTPTPVLRLVLLKWKASPRSSGVPSLSLGADMGSKVADLLY
 WKDTRTSGVVFGLMVSLLCLLHFSIVSVAHLALLLCCGTISLRVYRKVLQAVHRGDGANPFQAYLDVD
 LTLTREQTERLSHQITSRVVSAATQLRHFFLVEDLVDSLKALLFYILTFVGAIFNGLTLILGVIGLFT
 IPLLRYRQHQAIQYVGLVTNQLSHIKAKIRAKIPGTGALAFAAAAVSGSKAKAE

TRTRPLE – GFP Tag – V

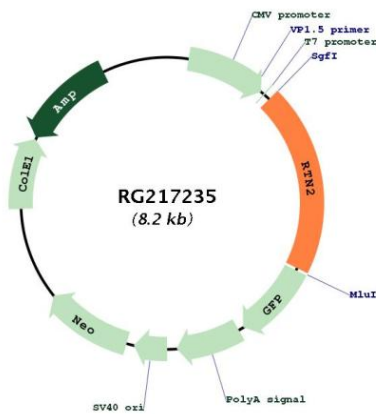
Restriction Sites:

Sgfl-MluI

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]

Product images:



Circular map for RG217235