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Product datasheet for RG215669

Reticulon 1 (RTN1) (NM_206852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Reticulon 1
Synonyms:	NSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG215669 representing NM_206852
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGCCACTGCCGATTCCACCAAGATGGACTGTGTGTGGAGCAACTGGAAAAGTCAGGCTATTGACC
TGTTGTATTGGCGGGACATCAAGCAGACGGGCATCGTGTTTGGGAGTTTCCTGCTGCTGCTCTTCTCCCT
GACCCAGTTCAGCGTGGTGAGCGTCGTGGCCTACCTGGCCCTGGCCGCACTCTCAGCCACCATCAGTTTC
CGCATCTACAAGTCTGTTTTACAAGCAGTGCAGAAAACCGACGAAGGCCACCCTTTCAAGGCCTACTTGG
AGCTTGAGATCACCCTTTCTCAGGAGCAGATTCAGAAGTACACGGACTGCCTGCAGTTCTACGTGAACAG
CACACTTAAGGAACTGAGGAGGCTCTTCCTTGTCCAGGACCTGGTGGATTCCTTAAAATTTGCAGTCCTG
ATGTGGCTCCTGACCTACGTTGGCGCTCTCTTCAATGGCCTGACCCTGCTGCTCATGGCTGTGGTTTCAA
TGTTTACTCTACCTGTAGTGTATGTTAAGCACCAGGCACAGATTGACCAATATCTGGGACTTGTGAGGAC
TCACATAAATGCTGTTGTGGCAAAGATTCAGGCTAAAATCCCAGGCGCTAAGAGGCACGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215669 representing NM_206852
Red=Cloning site Green=Tags(s)

MQATADSTKMDCVWSNWKSQAIDLLYWRDIKQTGIVFGSFLLLLFSLTQFSVVSVVAYLALAALSATISF
RIYKSVLQAVQKTDEGHPFKAYLELEITLSQEQIQKYTDCLQFYVNSTLKELRRLFLVQDLVDSLKFAVL
MWLLTYVGALFNGLTLLLMAVVSMFTLPVVYVKHQAQIDQYLGLVRTHINAVVAKIQAKIPGAKRHAE

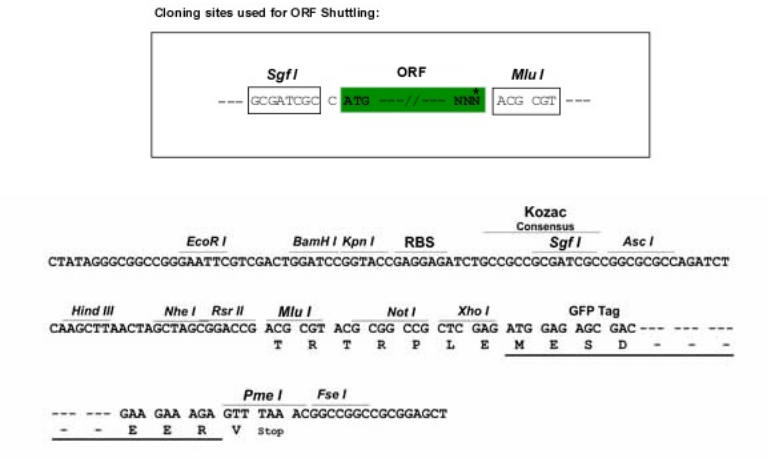
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1916_f08.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_206852

ORF Size: 624 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_206852.2

RefSeq Size: 1710 bp

RefSeq ORF: 627 bp

Locus ID: 6252

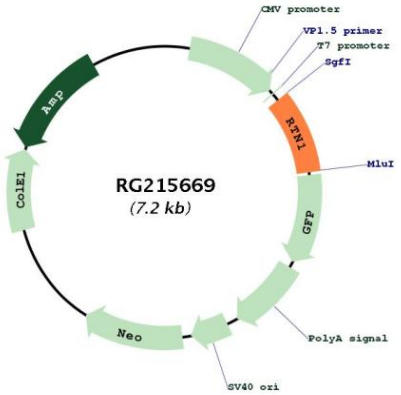
UniProt ID: Q16799

Cytogenetics: 14q23.1

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. This gene is considered to be a specific marker for neurological diseases and cancer, and is a potential molecular target for therapy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2011]

Product images:



Circular map for RG215669