

Product datasheet for **MG219679**

Rtn3 (NM_053076) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rtn3 (NM_053076) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rtn3
Synonyms: RTN3-A1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219679 representing NM_053076
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTAGTCTCCTCGTCGTCTCCGGGGCCGAGCCGTCAG
CTCTCGGGCGGGCGGGGAGCCCTGGAGCCTGCCCCGCCCTGGGGGCGAAGAGCTGCGGCTCCTCGTG
TGCGGTGCACGATCTGATTTTCTGGCGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACACTGATC
ATGCTGCTCTCTGGCAGCCTCAGTGTATCAGTGTGGTCTCTTACCTCATCCTGGCTCTTCTCTCTG
TCACCATCAGCTTCAGAGTCTATAAGTCTGTCATTCAAGCTGTGAGAAGTCAGAAGAAGGACATCCATT
CAAGGCCTACTTGGATGTGGACATTACCCTGTCTTCAGAAGCTTCCACAACACTACATGAATGCTGCGATG
GTGCATGTCAACAAGGCCCTCAAACCTATTATTCGTCTCTTTCTGGTAGAAGACTTGGTTGACTCCTTGA
AGCTGGCTGTCTTCATGTGGCTGATGACCTATGTTGGTGTCTTTTTAATGGAATTACCCTTCTGATTCT
CGCCGAGCTGCTTGTCTTCAGCGTCCCAATTGTCTATGAGAAGTATAAGACACAGATTGACCACTATGTT
GGGATTGCCCGGGATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAAGCTTCTGGAATCGCCAAAA
AAAAGGCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219679 representing NM_053076
Red=Cloning site Green=Tags(s)

MAESSAATQSPSVSSSSSSGAEPSALGGGGGSPGACPALGAKSCGSSCAVHDLIFWRDVKKTGFVFGTTLI
 MLLSLAAFVSVISVSYLILALLSVTISFRVYKSVIQAVQKSEEGHPFKAYLDVDITLSSEAFHNYMNAAM
 VHVNKALKLIIRLFLVEDLVDSLKLAVMWMLMTYVGVFNGITLLILAELLVFSVPVYVEKYKTQIDHYV
 GIARDQTKSIVEKIQAKLPGIAKKKAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053076

ORF Size: 711 bp

OTI Disclaimer: 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_053076.3](#), [NP_444306.1](#)

RefSeq Size: 2841 bp

RefSeq ORF: 714 bp

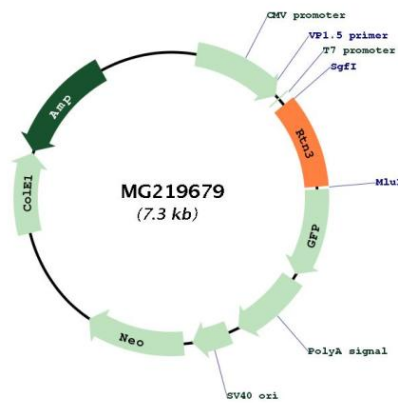
Locus ID: 20168

UniProt ID: [Q9ES97](#)

Cytogenetics: 19 A

Gene Summary: May be involved in membrane trafficking in the early secretory pathway. Inhibits BACE1 activity and amyloid precursor protein processing. May induce caspase-8 cascade and apoptosis. May favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress (By similarity). Induces the formation of endoplasmic reticulum tubules (PubMed:24262037).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219679