

Product datasheet for **MG218108**

Rtn1 (NM_001007596) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rtn1 (NM_001007596) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rtn1
Synonyms: Nsp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218108 representing NM_001007596
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGGCCACTGCCGATTCACCAAGATGGACTGTGTGGAGCAACTGGAAAAGTCAGGCTATTGACC
TTCTGTACTGGCGGACATCAAGCAGACTGGGATTGTGTTGCGGAGCTTCCTGCTGCTCTTCTCCCT
GACCCAGTTCAGCGTTGTGAGCGTCGTTGCCTACCTGGCCCTGGCCGCCCTCTGCCACCATCAGCTTC
CGCATCTACAAGTCCGTTCTACAAGCTGTGCAGAAAACAGATGAGGGTACCCTTTCAAGGCTACCTGG
AGCTGGAGATCACCTGTCCCAGGAGCAGATCCAGAAGTACACAGACTGCCTGCAGCTGTATGTGAACAG
CACTCTGAAGGAGCTACGAGGCTTTTCTCGTCCAGGACCTGGTGGATTCCTTAAAATTTGCAGTCCTC
ATGTGGCTCCTGACCTACGTTGGCGCGCTTCAATGGCCTGACCTGCTGCTTATGGCTGTGGTTTCGA
TGTTTACTCTACCTGTTGTACGTTAAGCACCAGGCACAAGTTGACCAATATCTGGGACTTGTGAGGAC
TCACATAAACACCGTCGTTGGCAAAGATCCAGGCTAAAATCCCCGGCGCCAAGAGGCACGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218108 representing NM_001007596
Red=Cloning site Green=Tags(s)

MQATADSTKMDCVWSNWKSQAIDLLYWRDIKQTGIVFGSFLLLLFLSLTQFSVVSVVAYLALAALSATISF
RIYKSVLQAVQKTDEGHPFKAYLELEITLSQEIQKYTDCLQLYVNSTLKERLRLFLVQDLVDSLKFAVL
MWLLTYVGALFNGLTLLMMAVSMFTLPVVVYVKHQAQVDQYLGLVRTHINTVVAKIQAIPGAKRHAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

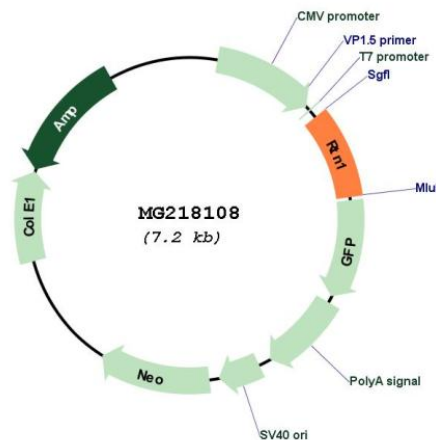


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001007596

ORF Size: 1548 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_001007596.2](#), [NP_001007597.1](#)

RefSeq ORF: 627 bp

Locus ID: 104001

Cytogenetics: 12 C3

Gene Summary: May be involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells.[UniProtKB/Swiss-Prot Function]