

Product datasheet for **MG211332**

Rtn3 (NM_001003934) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Rtn3 (NM_001003934) 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) |



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ORF Nucleotide Sequence:

>MG211332 representing NM_001003934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTAGTCTCCTCGTCGCTCCTCCGGGCGGAGCCGTCAG
 CTCTCGGCGGCGCGCGCGGGAGCCCTGGAGCCTGCCCGCCCTGGGGCGAAGAGCTGCGGCTCCTCGTG
 TCGCGATTCTTTGTTTCTTCTCTCCTCCTCAGCCTGTATCTATATTTTCGACCTCACAAGCGGGATTG
 AGCTCTCTTTGCTCTGATGAGCCACCTTCAAAAAGTATGACTTCCTCCTTTCTTTTCATCTTCTGAAATAC
 ATAACCTGACCCTACAACACCGCTTGGAGAAAAGAGTGAACATTAGGTAGCCAGTTTGTCTAGCTAA
 AGGAAAAGACCCCTTGGTTCTTCTAGATAAGAAAAAAGTGGACTCACCTCAGGGGACCAACAAGGACAGA
 GTAGACGCTCCGTTTCTTTCGCAACTGGCATTCTTGCAGCCACCTTCTATTCCAGACAGTTTCCCGAG
 AGCAACCTGCTTTCTGTCAAAGAAATGGTCCAGCAGAAGAGTGGGTAGTTAAAGACCAAGAACCCAA
 GAACCCAAACAAGTTCCAGATGGGAGGACAGAAGTGCAGTGGATTTTGGGCAGTCTAAGCAGAAACAC
 ATTTGTACATATTCCTTGTCCCATCTGAACTTCCAGTAGCCAGTGTAGAAAAAGATTCTCTGAGTCAC
 CGTTTGAAGTAATTATTGACAAAGCAACATTTGACAGAGAATTTAAAGATTTGTATAAGGAAAACCCAAA
 TGATTTGGGTGGCTGGGAGCTCATGGCGATAGAGAATCCCCCGCAGACTTGTGGAAATGAATGACAAA
 CTCTTTCCACTGAGAAATAAGAGGCGAGGGCGTTACCCATCCTCTGTACTGCTCGGTAGACAGTTCTCAC
 AACTACAGCAGCACTGGAAGAGGTGTCTAGATGTGTGAATGATATGCATAACTTTACTAATGAAATACT
 GACTTGGGACTTAGATCCCCAAGCAAAACAACAGGCCAATAAAACATCTGCACCACAGAAAGTACAGGA
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 AAGTAACCTTACCTAACCTGAGGGTGCCTGGCCTAACTCTGTGATGGGGGAAGTCACAGAGGTTGATAG
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 GCAAAAACAAGTAAAGGGAAATCAAAGAGACTCCAGTCGTGAAACTGTGAGGAGTGAATGTGTGAAA
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 GACTTTAAAAACACTTTGCCTGTGGAACCTTGCATGAAAGTGAAGTAAAGTGGTTCTGAAACCAAAAATA
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 GCAGGAGCAGCTCACCATCAGAGCCATTAAAGAATTAGGAGAAAGGCAAGCTGAGAAGGTGCAGGATGAA
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 CTCAGTGATTTCCAGTGCAGATCTGATTTTCTGGCGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCA
 CCACACTGATCATGCTGCTCTCTGGCAGCCTTCAAGTGTATCAGTGTGGTCTTACCTCATCTGGC
 TCTTCTCTGTGACCATCAGCTTCAAGTCTATAAGTCTGTCATTCAAGCTGTGCAGAAGTCAAGAGAA
 GGACATCCATTCAAGGCCTACTTGGATGTGGACATTACCCTGTCTTCAAGCTTCCACAACACTACATGA
 ATGCTGCGATGGTGCATGTCAACAAGGCCCTCAAACCTATTATTCGTCTCTTTCTGGTAGAAGACTTGGT
 TGACTCCTGAAGCTGGCTGTCTCATGTGGCTGATGACCTATGTTGGTGTCTTTTAAATGGAATTACC
 CTTCTGATTCTCGCCGAGCTGCTTGTCTCAGCGTCCCAATTGTCTATGAGAAGTATAAGACACAGATTG
 ACCACTATGTTGGGATTGCCCGGATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAAGCTTCTGTG
 AATCGCCAAAAAAAAGGCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211332 representing NM_001003934
 Red=Cloning site Green=Tags(s)

MAESSAATQSPSVSSSSSGAEPSALGGGGGSPGACPALGAKSCGSSCADSFVSSSSSQPVSIFSTSQAGL
 SSLCSDEPPSKSMTSSFLSSSEIHNPDPTTPLGEKSETLGSQFVLAKGKDPLVLLDKKLDSPQGTNKDR
 VDAPVSLATGIPCSHPSIPDSFPEQPAFLSKEIGPAEEWVVKDQEPKNPNKVPDGEDRSALDFGQSKAEH
 ICTYSLSPSELVAVSEKDSPEPFVEVIDKATFDREFKDLYKENPNDLGGWAAHGDRESPADLLEMNDK
 LFPLRNKEAGRYPSSVLLGRQFSHTTAAL EEVSRVNDMHNFTNEILTWDLDPQAKQQANKTSCCTESTG
 LDRSELRESEIPVINLKTNPQQKMPVCSFNGSTPITKSTGDWTEAFTEGKPVVDYLSSTKEAGNGVPGSS
 QLHSELPGSMPEKWVSGSGAATVEVTLPNLRGAWPNSVMGEVTEVDSSGESDDTVIEDITEKPDLSLPSAA
 AKTSEREIKETPSRETVRSEMCENSEQPQAQPETPTQKSLEGEVASQVNTLNEVTPEKLDMTNNPKVCS
 AAPPSVLNETGFSLTPASAKLESLLGKYVEDTDGSSPEDLMAVLTGAEKGIQVKEEGDVL EAVLEKIA
 DFKNTLPVELLHESELGSETKNIKSKYSEDSRETTGGAPTMSPDLEQEQLTIRAIKELGERQAEKVQDE
 GISSGGKLGKQTFAPQSGPQSSSDILEHTDVKTGSDLGIPKNPTI IKNTRIDSISLTKTEMVNKNVLARL
 LSDFPVHDLIFWRDVKKTGFVFGTTLIMLLSLAAF SVISVVSYLILALLSVTISFRVYKSVIQAVQKSEE
 GHPFKAYLDVDITLSSEAFHNYMNAAMVHYNKALKLIIRLFLVEDLVDSLKLAVFMWMLMTYVGVFNGIT
 LLLLAELLVFSVPIVYEKYKTQIDHYVGIARDQTKSIVEKIQAQLPGIAKKKAE

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

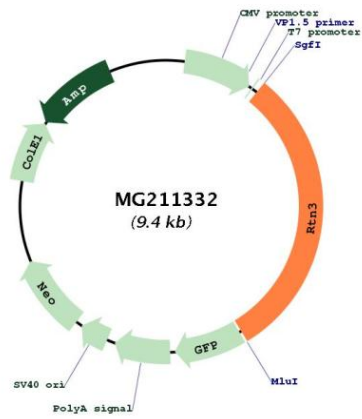


ACCN: NM_001003934

ORF Size: 2892 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001003934.2 , NP_001003934.1 |
| RefSeq Size: | 5038 bp |
| RefSeq ORF: | 2895 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 MG211332