

Product datasheet for **RG217927**

RTN3 (NM_201430) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RTN3 (NM_201430) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | RTN3 |
| Synonyms: | ASYIP; HAP; NSPL2; NSPLI; RTN3-A1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG217927 representing NM_201430 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGCCGTCGGCGGCCACTCAGTCCATTCCATCTCCTCGTCGTCCTTCGGAGCCGAGCCGTCGG
CGCCCGGCGGGCGGGAGCCAGGAGCCTGCCCGCCCTGGGGACGAAGAGCTGCAGCTCCTCCTGTGC
GGTGCACGATCTGATTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATG
CTGCTTTCCTGGCAGCTTTCAGTGTCACTAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTGTCA
CCATCAGCTTCAGGATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAA
AGCCTACCTGGACGTAGACATTACTCTGTCTCAGAAAGCTTCCATAATTACATGAATGCTGCCATGGTG
CACATCAACAGGGCCCTGAAACTCATTATTCGTCTCTTCTGGTGAAGATCTGGTTGACTCCTTGAAGC
TGGCTGTCTTCATGTGGCTGATGACCTATGTTGGTGTGTTTTAACGGAATCACCTTCTAATCTTGC
TGAAGTGTCTATTTTCAGTGTCCCGATTGTCTATGAGAAGTACAAGGATCCAAGCAAACTCCCTGGAAT
CGCCAAAAAAGGCAGAATAAGTACATGGAAACCAGAAATGCAACAGTTACTAAAACACCATTTAATAG
TTATAACGTCGTTACTTGTACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217927 representing NM_201430
Red=Cloning site Green=Tags(s)

MAEPSAATQSHSISSSSFGAEPSAPGGGGSPGACPALGTKSCSSSCAVHDLIFWRDVKKTGFVFGTTLIM
 LLSLAAFSVISVVSYLILALLSVTISFRIYKSVIQAVQKSEEGHPFKAYLDVDITLSSEAFHNYMNAAMV
 HINRALKLIIRLFLVEDLVDSLKLAVFMWLMTYVGAVFNGITLLILAELLIFSVPIVYEKYKDPKPTPWN
 RQKKGRISTWKPEMQQLLKHHLIVITSLLVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_201430

ORF Size: 723 bp

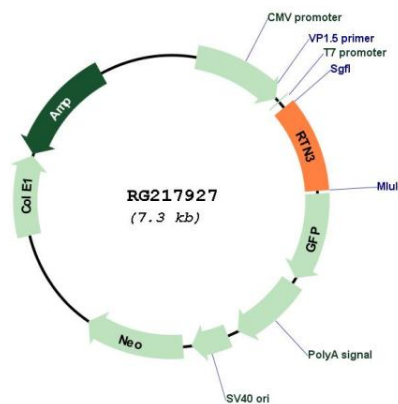
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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| 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_201430.3 |
| RefSeq Size: | 2542 bp |
| RefSeq ORF: | 726 bp |
| Locus ID: | 10313 |
| UniProt ID: | O95197 |
| Cytogenetics: | 11q13.1 |
| Protein Families: | Transmembrane |
| Gene Summary: | This gene belongs to the reticulon family of highly conserved genes that are preferentially expressed in neuroendocrine tissues. This family of proteins interact with, and modulate the activity of beta-amyloid converting enzyme 1 (BACE1), and the production of amyloid-beta. An increase in the expression of any reticulon protein substantially reduces the production of amyloid-beta, suggesting that reticulon proteins are negative modulators of BACE1 in cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, and pseudogenes of this gene are located on chromosomes 4 and 12. [provided by RefSeq, May 2012] |

Product images:



Circular map for RG217927