

Product datasheet for **RC217864**

RTN3 (NM_201429) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RTN3 (NM_201429) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RTN3
Synonyms: ASYIP; HAP; NSPL2; NSPLI; RTN3-A1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC217864 representing NM_201429
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGCCGTCGGCGGCCACTCAGTCCCATTCCATCTCCTCGTCGTCTTCGGAGCCGAGCCGTCGG
 CGCCCGGCGGGCGGGAGCCAGGAGCCTGCCCGCCCTGGGGACGAAGAGCTGCAGCTCCTCCTGTGC
 GGATTCCTTTGTTTCTTCTCTCCTCTCAGCCTGTATCTCTATTTTCGACCTCACAAAGTGCACGATCTG
 ATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCAGCTGATCATGCTGCTTTCCCTGG
 CAGCTTTCAGTGTATCAGTGTGGTTTCTACCTCATCCTGGCTCTTCTCTGTCCACCATCAGCTTCAG
 GATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGAC
 GTAGACATTACTCTGTCCTCAGAAGCTTCCATAATTACATGAATGCTGCCATGGTGACATCAACAGGG
 CCCTGAAACTCATTATTCGTCCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCAT
 GTGGCTGATGACCTATGTTGGTGTGTTTTAACGGAATCACCCCTTCTAATTCTTGTGAACTGCTCATT
 TTCAGTGTCCCGATTGTCTATGAGAAGTACAAGACCCAGATTGATCACTATGTTGGCATCGCCCGAGATC
 AGACCAAGTCAATTGTTGAAAAGATCCAAGCAAACTCCCTGGAATCGCCAAAAAAGGCGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217864 representing NM_201429
Red=Cloning site Green=Tags(s)

MAEPSAATQSHSISSSSFGAEPSAPGGGGSPGACPALGTKSCSSSCADSFVSSSSSQPVSLFSTSQVHDL
 IFWRDVKKTGFVFGTLLIMLLSLAAFVSVVSYLILALLSVTISFRIYKSVIQAVQKSEEGHPFKAYLD
 VDITLSSEAFHNYMNAAMVHINRALKLIIRLFLVEDLVDSLKLAVFMWMLTYVGVNGITLLILAELLI
 FSVPIVYEKYKTQIDHYVGIARDQTKSIVEKIQAQLPGIAKKKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_201429

ORF Size: 765 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_201429.2](#), [NP_958832.1](#)

RefSeq Size: 2645 bp

RefSeq ORF: 768 bp

Locus ID: 10313

UniProt ID: [O95197](#)

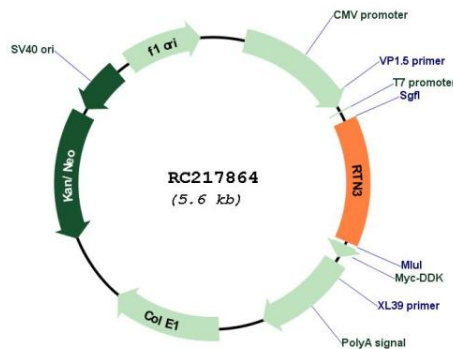
Cytogenetics: 11q13.1

Protein Families: Transmembrane

MW: 27.6 kDa

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 RC217864