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Product datasheet for RC217819

RTN3 (NM_006054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTN3 (NM_006054) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RTN3
Synonyms:	ASYIP; HAP; NSPL2; NSPLII; RTN3-A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217819 representing NM_006054
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCCGTCGGCGGCCACTCAGTCCCATTCCATCTCCTCGTCGTCCTTCGGAGCCGAGCCGTCCG
CGCCCGGCGGCGGCGGGAGCCCAGGAGCCTGCCCCGCCCTGGGGACGAAGAGCTGCAGCTCCTCCTGTGC
GGTGCACGATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACGCTGATCATG
CTGCTTTCCCTGGCAGCTTTCAGTGTCATCAGTGTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCA
CCATCAGCTTCAGGATCTACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAA
AGCCTACCTGGACGTAGACATTACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTG
CACATCAACAGGGCCCTGAAACTCATTATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGC
TGGCTGTCTTCATGTGGCTGATGACCTATGTTGGTGCTGTTTTTAACGGAATCACCCTTCTAATTCTTGC
TGAACTGCTCATTTTCAGTGTCCCGATTGTCTATGAGAAGTACAAGACCCAGATTGATCACTATGTTGGC
ATCGCCCGAGATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAAACTCCCTGGAATCGCCAAAAAAA
AGGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC217819 representing NM_006054
Red=Cloning site Green=Tags(s)

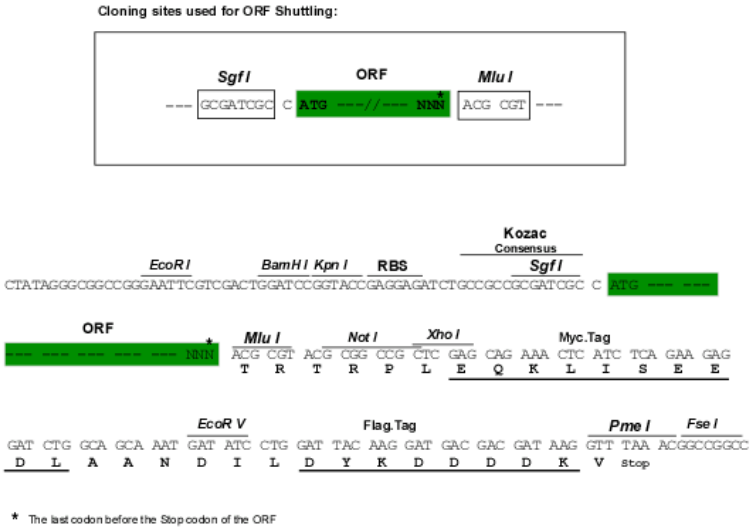
MAEPSAATQSHSISSSSFGAEPSAPGGGGSPGACPALGTKSCSSSCAVHDLIFWRDVKKTGFVFGTTLIM
LLSLAAFSVISVVSYLILALLSVTISFRIYKSVIQAVQKSEEGHPFKAYLDVDITLSSEAFHNYMNAAMV
HINRALKLIIRLFLVEDLVDSLKLAVFMWLMTYVGAVFNGITLLILAELLIFSVPIVYEKYKTQIDHYVG
IARDQTKSIVEKIQAKLPGIAKKKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6492_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006054

ORF Size: 708 bp

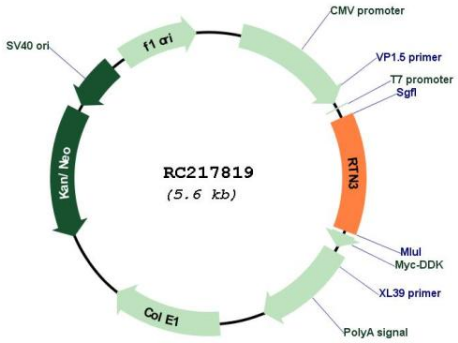
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

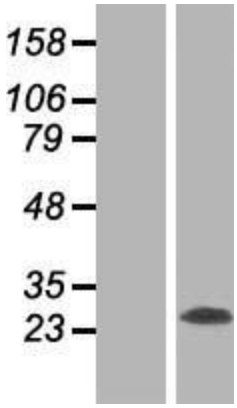
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_006054.4
RefSeq Size:	2583 bp
RefSeq ORF:	711 bp
Locus ID:	10313
UniProt ID:	O95197
Cytogenetics:	11q13.1
Domains:	Reticulon
Protein Families:	Transmembrane
MW:	25.4 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 RC217819



Western blot validation of overexpression lysate (Cat# [LY416906]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217819 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).