

Product datasheet for MR228826

Rtn3 (NM_001271487) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rtn3 (NM_001271487) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rtn3
Synonyms: RTN3-A1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228826 representing NM_001271487
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTAGTCTCCTCGTCGTCCTCCGGGGCCGAGCCGTCAG
CTCTCGGCGCGCGCGGGAGCCCTGGAGCCTGCCCGCCCTGGGGGCGAAGAGCTGCGGCTCCTCGT
TGCGGATTCCTTTGTTTCTTCTCTTCCCTCAGCCTGTATCTATATTTTCGACCTCACAAGTGCACGAT
CTGATTTTCTGGCGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCACCACACTGATCATGCTGCTCTCTC
TGGCAGCCTTCAGTGTTATCAGTGTGGTCTTTACCTCATCCTGGCTCTTCTCTGTCAACCATCAGCTT
CAGAGTCTATAAGTCTGTCAATCAAGCTGTGCAGAAGTCAGAAGAAGGACATCCATTCAAGGCCTACTTG
GATGTGGACATTACCCTGTCTTCAGAAGCTTCCACAACACATGAATGCTGCGATGGTGCATGTCAACA
AGGCCCTCAAACCTATTTCGTCTCTTCTGGTAGAAGACTGGTTGACTCCTTGAAGCTGGCTGTCTT
CATGTGGCTGATGACCTATGTTGGTGTGTTTTAATGGAATTACCCTTCTGATTCTCGCCGAGCTGCTT
GTCTTCAGCGTCCCAATTGTCTATGAGAAGTATAAGACACAGATTGACCACTATGTTGGGATTGCCCGGG
ATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAAGCTTCTGGAATCGCCAAAAAAAAGGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR228826 representing NM_001271487
 Red=Cloning site Green=Tags(s)

MAESSAATQSPSVSSSSSGAEPSALGGGGGSPGACPALGAKSCGSSCADSFVSSSSSQPVSIFFSTSQVHD
 LIFWRDVKKTGFVFGTLLIMLLSLAAFVSVSVSYLILALLSVTISFRVYKSVIQAVQKSEEGHPFKAYL
 DVDITLSSEAFHNYMNAAMVHVNKALKLIIRLFLVEDLVDSLKLAVFMWMLMTYVGAVFNGITLLILAELL
 VFSVPIVYEKYKTQIDHYVGIARDQTKSIVEKIQAQLPGIAKKKAE

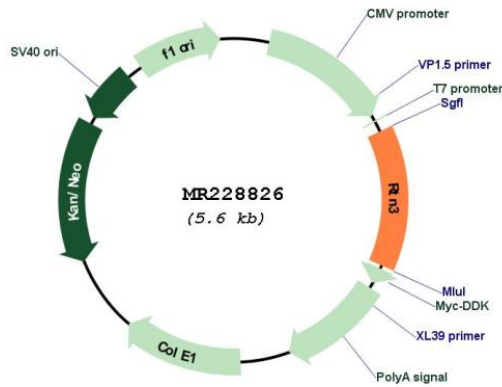
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271487
 ORF Size: 768 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:	<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_001271487.1 , NP_001258416.1
RefSeq Size:	2914 bp
RefSeq ORF:	771 bp
Locus ID:	20168
UniProt ID:	Q9ES97
Cytogenetics:	19 A
MW:	27.8 kDa
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]