

Product datasheet for **MC222868**

Rtn3 (NM_001003934) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn3 (NM_001003934) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtn3
Synonyms:	RTN3-A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222868 representing NM_001003934

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTAGTCTCCTCGTCGCTCCTCCGGGCGGAGCCGTCAG
 CTCTCGGCGGCGCGGCCGGAGCCCTGGAGCCTGCCCGCCCTGGGGCGAAGAGCTGCGGCTCCTCGTG
 TGGGATTCTTTGTTTCTTCTCCTCCTCAGCCTGTATCTATATTTTCGACCTCACAAGCGGGATTG
 AGCTCTCTTTGCTCTGATGAGCCACCTTCAAAAAGTATGACTTCCTCCTTTCTTTTCATCTTCTGAAATAC
 ATAACCTGACCCTACAACACCGCTTGGAGAAAAGAGTGAACATTAGGTAGCCAGTTTGTCTAGCTAA
 AGGAAAAGACCCCTTGGTTCTTCTAGATAAGAAAAAAGTGGACTCACCTCAGGGGACCAACAAGGACAGA
 GTAGACGCTCCGGTTTCTTGAACCTGGCATTCTTGCAGCCACCTTCTATTCCAGACAGTTTCCCGAG
 AGCAACCTGCTTTCTGTCAAAAAGAAATGGTCCAGCAGAAGAGTGGGTAGTTAAAGACCAAGAACC
 GAACCCAAACAAGTTCCAGATGGGGAGGACAGAAGTGCAGTGGATTTTGGGCAGTCTAAGCAGAAACAC
 ATTTGTACATATTCCTTGTCCCATCTGAACCTCCAGTAGCCAGTGTAGAAAAAGATTCTCTGAGTCAC
 CGTTTGAAGTAATTATTGACAAAGCAACATTTGACAGAGAATTTAAAGATTTGATAAGGAAAACCCAAA
 TGATTTGGGTGGCTGGGAGCTCATGGCGATAGAGAATCCCCCGCAGACTTGTGGAAATGAATGACAAA
 CTCTTCCACTGAGAAATAAAGAGGCAGGGCGTTACCCATCCTCTGTACTGCTCGGTAGACAGTTCTCAC
 AACTACAGCAGCACTGGAAGAGGTGTCTAGATGTGTGAATGATATGCATAACTTTACTAATGAAACT
 GACTTGGGACTTAGATCCCCAAGCAAAACAACAGGCCAATAAACATCTGCACCACAGAAAGTACAGGA
 CTAGACAGGAGTGAACCTCGCTCAGAAAATCCAGTTATAAATCTTAAACAACCCCTCAACAGAAAATGC
 CTGTATGTTCTTTAATGGGAGCACTCCATTACCAAAATCCACAGGTGACTGGACAGAAGCATTTACAGA
 AGGAAAACCTGTAAAGAGACTACCTCAGTCCACAAAAGAAGCTGGTGGCAACGGTGTGCCAGGCAGTTCT
 CAGCTTATTCTGAGCTGCCTGGCTCTATGCCTGAGAAATGGGTCTCAGGCTCTGGAGCAGCCACAGTGG
 AAGTAACCTTACCTAACCTGAGGGGTGCCTGGCCTAACTCTGTGATGGGGGAAGTCACAGAGGTTGATAG
 TTCTGGGGAATCTGATGACACAGTAATAGAGGACATCACAGAAAAACCTGACTCCCTTCCAAGTGTCT
 GCAAAAACAAGTAAAGGGAAATCAAAGAGACTCCAGTCTGAAACTGTGAGGAGTGAATGTGTGAAA
 ACTCTGAGCAGCCGAGGCCAGCCAGAACTCCTACTCAGAAGAGTCTGGAAGGTGAGGTGGCTTACAC
 AGTACCTAATACCCTGAATGAAGTACACCTGAAAAGCTTGATATGACTAACACCCCAAGTTTGTCTCA
 GCAGCACCTCCAAGTGTCTTAATGAGACAGGATTCTCACTAAGTGTGCCAGCTTCTGCCAAGTTGGAAT
 CTTTGTGTTGAAAAATATGTTGAAGATACAGATGGTTCTCCCGAGGACTTGATGGCTGTCTCACAGG
 AGCCGAGGAGAAGGGGATAGTGGATAAAGAGGAAGGTGATGTTTTGGAAGCAGTGTAGAGAAGATAGCA
 GACTTTAAAAACACTTTGCCTGTGGAACCTTGCATGAAAGTGAAGTAAAGTGGTTCTGAAACCAAAAAATA
 TAAAAGCAAAATACAGTGAAGACAGCAGAGAAACAACCTGGAGGTGCCCTACGATGTCTCCCGACTTAGA
 GCAGGAGCAGCTCACCATCAGAGCCATTAAAGAATTAGGAGAAAGGCAAGCTGAGAAGGTGCAGGATGAA
 GGAATATCTTCTGGAGGAAAACCAAGCAAACTTTGCTCCACAGTCTGGGCCACAGAGTTCATCTGACA
 TCCTAGAACACACAGATGTCAAACTGGATCTGATCTTGGAAATCCCAAAAATCCTACTATCATCAAAAA
 CACTAGAATAGATTCTATTTCCAGCCTTACCAAGACTGAAATGGTTAACAAGAATGTTCTAGCAAGACTT
 CTCAGTGATTTCCAGTGCAGATCTGATTTTCTGGCGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCA
 CCACACTGATCATGCTGCTCTCTGGCAGCCTCAGTGTATCAGTGTGGTCTTTACCTCATCTGGC
 TCTTCTCTGTGACCATCAGCTTCAAGTCTATAAGTCTGTCATTCAAGCTGTGAGAAGTCAAGAGAA
 GGACATCCATTCAAGGCCTACTTGGATGTGGACATTACCCTGTCTTCAAGCTTCCACAACACTACATGA
 ATGCTGCGATGGTGCATGTCAACAAGGCCCTCAAACCTATTATTCGTCTCTTTCTGGTAGAAGACTTGGT
 TGACTCCTGAAGCTGGCTGTCTCATGTGGCTGATGACCTATGTTGGTGTCTTTTAAATGGAATTACC
 CTTCTGATTCTCGCCGAGCTGCTTGTCTCAGCGTCCCAATTGTCTATGAGAAGTATAAGACACAGATTG
 ACCACTATGTTGGGATTGCCCGGATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAAGCTTCTCTGG
 AATCGCCAAAAAAAAGGCAGAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001003934
Insert Size:	2895 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<p>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]</p> <p>Transcript Variant: This variant (1, also known as Rtn3-A1) represents the longest transcript and encodes the longest isoform (1).</p>