

Product datasheet for **MC222780**

Rtn3 (NM_001003933) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn3 (NM_001003933) 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:

>MC222780 representing NM_001003933

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTAGTCTCCTCGTCGCTCCTCCGGGCGGAGCCGTCAG
 CTCTCGGCGGCGGCGGCGGGAGCCCTGGAGCCTGCCCGCCCTGGGGCGGAAGAGCTGCGGCTCCTCGTG
 TGGCGGGGATTGAGCTCTCTTTGCTCTGATGAGCCACCTTCAAAAAGTATGACTTCCTCCTTTCTTTCA
 TCTTCTGAAATACATAACCCTGACCCTACAACCCGCTTGGAGAAAAGAGTGAAACATTAGGTAGCCAGT
 TTGTTCTAGCTAAAGGAAAAGACCCCTTGGTTCTTCTAGATAAGAAAAAACTGGACTCACCTCAGGGGAC
 CAACAAGGACAGAGTAGACGCTCCGTTTCTCTTGAACCTGGCATTCTTGCAGCCACCCTTCTATTCCA
 GACAGTTTCCAGAGCAACCTGCTTTTCTGTCAAAGAAATTGGTCCAGCAGAAGAGTGGTAGTTAAAG
 ACCAAGAACC CAAGAACC CAACAAGGTTCCAGATGGGGAGGACAGAAGTGCAGTGGATTTTGGGCAGTC
 TAAGGCAGAACACATTTGTACATATTCTTGTCCCATCTGAACCTCCAGTAGCCAGTGTAGAAAAAGAT
 TCTCCTGAGTCACCGTTTGAAGTAATTATTGACAAAGCAACATTTGACAGAGAATTTAAAGATTTGTATA
 AGGAAAACCCAAATGATTTGGGTGGCTGGGCAGCTCATGGCGATAGAGAATCCCCCGCAGACTTGTGGGA
 AATGAATGACAACTCTTCCACTGAGAAATAAGAGGCGAGGGCCTTACCCATCCTCTGTACTGCTCGGT
 AGACAGTTCTCACACTACAGCAGCACTGGAAGAGGTGTCTAGATGTGTGAATGATGACATAACTTTA
 CTAATGAAATACTGACTTGGGACTTAGATCCCCAAGCAAAAACAACAGGCCAATAAAACATCTTGCACCAC
 AGAAAGTACAGGACTAGACAGGAGTGAACCTCGCTCAGAAATCCAGTTATAAATCTTAAAAACAACCT
 CAACAGAAAATGCCTGTATGTTCTTTAATGGGAGCACTCCATTACCAATCCACAGGTGACTGGACAG
 AAGCATTTACAGAAGAAAACCTGTAAGAGACTACCTCAGTTCACAAAAGAAGCTGGTGGCAACGGTGT
 GCCAGGCAGTTCTCAGCTTCATTCTGAGCTGCCTGGCTCTATGCCTGAGAAATGGGTCTCAGGCTCTGGA
 GCAGCCACAGTGAAGTAACTTTACCTAACCTGAGGGGTGCCTGGCCTAACTCTGTGATGGGGGAAGTCA
 CAGAGGTTGATAGTTCTGGGGAATCTGATGACACAGTAATAGAGGACATCACAGAAAAACCTGACTCCCT
 TCCAAGTCTGCTGCAAAAACAAGTAAAAGGAAATCAAAGAGACTCCCAGTCGTGAAACTGTGAGGAGT
 GAAATGTGTGAAAACCTGAGCAGCCGAGGCCAGCCAGAACTCCTACTCAGAAGAGTCTGGAAGGTG
 AGGTGGCTTCAAGTACCTAATACCCTGAATGAAGTACACCTGAAAAGCTTGATGACTAACAAACC
 CAAAGTTTCTCAGCAGCACTCCAAGTGTCTAATGAGACAGGATTCTACTAACTGTGCCAGCTTCT
 GCCAAGTTGGAATCTTTGCTTGGAAAATATGTTGAAGATACAGATGGTTCCTCCCAGAGGACTTGATGG
 CTGTCTCACAGGAGCCGAGGAGAAGGGATAGTGGATAAAGAGGAAGGTGATGTTTTGGAAGCAGTGTT
 AGAGAAGATAGCAGACTTTAAAAACACTTTGCCTGTGGAACCTTGCATGAAAGTGAAGTAAAGTGTCT
 GAAACCAAAAATATTAAGCAAAATACAGTGAAGACAGCAGAGAAAACACTGGAGGTGCCCTACGATGT
 CTCCCAGCTTAGAGCAGGAGCAGCTCACCATCAGAGCCATTAAGAATTAGGAGAAAGGCAAGCTGAGAA
 GGTGCAGGATGAAGGAATATCTTCTGGAGGAAAACCAAGCAACCTTTGCTCCACAGTCTGGGCCACAG
 AGTTCATCTGACATCCTAGAACACACAGATGTCAAACCTGGATCTGATCTTGAATTCCCAAAAATCCTA
 CTATCATCAAAAACACTAGAATAGATTCTATTTCCAGCCTTACCAAGACTGAAATGGTTAACAAGAATGT
 TCTAGCAAGACTTCTCAGTGATTTCCAGTGCAGCATCTGATTTCTGGCGAGATGTGAAGAAGACTGGG
 TTTGTCTTTGGCACCACACTGATCATGCTCTCTCTGGCAGCCTTCAGTGTTATCAGTGTGGTCTCTT
 ACCTCATCCTGGCTCTTCTCTGTCCACATCAGCTTCAGAGTCTATAAGTCTGTCATTCAAGCTGTGCA
 GAAGTCAGAAGAAGGACATCCATTCAAGGCCTACTTGGATGTGGACATTACCCTGTCTTCAGAAGCTTTC
 CAAACTACATGAATGCTGCGATGGTGCATGTCAACAAGGCCCTCAAACCTATTATTGCTCTTTCTGG
 TAGAAGACTTGGTTGACTCCTTGAAGCTGGCTGTCTTATGTGGCTGATGACCTATGTTGGTGTCTTTT
 TAATGGAATTACCCTTCTGATTCTCGCCGAGCTGCTTGTCTTTCAGCGTCCAATTGTCTATGAGAAGTAT
 AAGACACAGATTGACCACTATGTTGGGATTGCCGGGATCAGACCAAGTCAATTGTTGAAAAGATCCAAG
 CAAAGCTTCTGGAATCGCCAAAAAAAAGGCAGAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001003933
Insert Size:	2838 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:	<u>NM_001003933.2</u> , <u>NP_001003933.1</u>
RefSeq Size:	4981 bp
RefSeq ORF:	2838 bp
Locus ID:	20168
UniProt ID:	<u>Q9ES97</u>
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 (2, also known as RTN3-A2) lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>