

Product datasheet for **MR211332**

Rtn3 (NM_001003934) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR211332 representing NM_001003934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAGTCGTCAGCGGCCACTCAGTCCCCGTAGTCTCCTCGTCGCTCCTCCGGGCGGAGCCGTCAG
 CTCTCGGCGGCGCGCGCGGGAGCCCTGGAGCCTGCCCGCCCTGGGGCGAAGAGCTGCGGCTCCTCGTG
 TGGCGATTCTTTGTTTCTTCTCTCCTCCTCAGCCTGTATCTATATTTTCGACCTCACAAAGCGGGATTG
 AGCTCTCTTTGCTCTGATGAGCCACCTTCAAAAAGTATGACTTCCTCCTTTCTTTTCATCTTCTGAAATAC
 ATAACCTGACCTACAACACCGCTTGGAGAAAAGAGTAAACATTAGGTAGCCAGTTTGTCTAGCTAA
 AGGAAAAGACCCCTTGGTTCTTCTAGATAAGAAAAAACTGGACTCACCTCAGGGGACCAACAAGGACAGA
 GTAGACGCTCCGTTTCTTTCGCAACTGGCATTCTTGCAGCCACCTTCTATTCCAGACAGTTTCCCGAG
 AGCAACCTGCTTTCTGTCAAAGAAAATGGTCCAGCAGAAGAGTGGGTAGTTAAAGACCAAGAACCCAA
 GAACCCAAACAAGTTCCAGATGGGGAGGACAGAAGTGCAGTGGATTTTGGGCAGTCTAAGCAGAAACAC
 ATTTGTACATATTCCTTGTCCCATCTGAACTTCCAGTAGCCAGTGTAGAAAAAGATTCTCTGAGTCAC
 CGTTTGAAGTAATTATTGACAAAGCAACATTTGACAGAGAATTTAAAGATTTGATAAGGAAAACCCAAA
 TGATTTGGGTGGCTGGGAGCTCATGGCGATAGAGAATCCCCCGCAGACTTGTGGAAATGAATGACAAA
 CTCTTCCACTGAGAAAATAAGAGGCGAGGGCGTTACCCATCCTCTGTACTGCTCGGTAGACAGTTCTCAC
 AACTACAGCAGCACTGGAAGAGGTGTCTAGATGTGTGAATGATATGCATAACTTTACTAATGAAATACT
 GACTTGGGACTTAGATCCCCAAGCAAAACAACAGGCCAATAAAACATCTGCACCACAGAAAAGTACAGGA
 CTAGACAGGAGTGAACCTCGCTCAGAAAATCCAGTTATAAATCTTAAACAACCCCTCAACAGAAAATGC
 CTGTATGTTCTTTAATGGGAGCACTCCATTACCAAATCCACAGGTGACTGGACAGAAGCATTTACAGA
 AGGAAAACCTGTAAAGAGACTACCTCAGTTCACAAAAGAAGCTGGTGGCAACGGTGTGCCAGGCAGTTCT
 CAGCTTATTCTGAGCTGCCTGGCTCTATGCCTGAGAAAATGGGTCTCAGGCTCTGGAGCAGCCACAGTGG
 AAGTAACCTTACCTAACCTGAGGGTGCCTGGCCTAACTCTGTGATGGGGGAAGTCACAGAGGTTGATAG
 TTCTGGGGAATCTGATGACACAGTAATAGAGGACATCACAGAAAACCTGACTCCCTTCCAAGTGTCTGCT
 GCAAAAACAAGTAAAGGGAAATCAAAGAGACTCCAGTCGTGAAACTGTGAGGAGTGAATGTGTGAAA
 ACTCTGAGCAGCCGAGGCCAGCCAGAAAACCTACTCAGAAGAGTCTGGAAGGTGAGGTGGCTTACACA
 AGTACCTAATACCCTGAATGAAGTACACCTGAAAAGCTTGATATGACTAACACCCCAAGTTTGTCTCA
 GCAGCACCTCAAGTGTCTTAATGAGACAGGATTCTCACTAAGTGTGCCAGCTTCTGCCAAGTTGGAAT
 CTTTGTCTGGAAAATATGTTGAAGATACAGATGGTTCTCCCGAGGACTTGATGGCTGTCTCACAGG
 AGCCGAGGAGAAGGGGATAGTGGATAAAGAGGAAGGTGATGTTTTGGAAGCAGTGTAGAGAAGATAGCA
 GACTTTAAAAACACTTTGCCTGTGGAACCTTGCATGAAAGTGAAGTAAAGTGGTTCTGAAACCAAAAATA
 TAAAAGCAAAATACAGTGAAGACAGCAGAGAAAACAACCTGGAGGTGCCCTACGATGTCTCCCGACTTAGA
 GCAGGAGCAGCTCACCATCAGAGCCATTAAAGAATTAGGAGAAAGGCAAGCTGAGAAGGTGCAGGATGAA
 GGAATATCTTCTGGAGGAAAACCAAGCAAACTTTGTCCACAGTCTGGGCCACAGAGTTTCTGACACA
 TCCTAGAACACACAGATGTCAAACTGGATCTGATCTTGGAAATCCCAAAAATCCTACTATCATCAAAAA
 CACTAGAATAGATTCTATTTCCAGCCTTACCAAGACTGAAATGGTTAACAAGAATGTTCTAGCAAGACTT
 CTCAGTGATTTCCAGTGCAGTCTGATTTTCTGGCGAGATGTGAAGAAGACTGGGTTTGTCTTTGGCA
 CCACACTGATCATGCTGCTCTCTGGCAGCCTTCAAGTGTATCAGTGTGGTCTTTACCTCATCTGGC
 TCTTCTCTGTGACCATCAGCTTCAAGTCTATAAGTCTGTCATTCAAGCTGTGAGAAGTCAAGAGAA
 GGACATCCATTCAAGGCCTACTTGGATGTGGACATTACCCTGTCTTCAAGCTTCCACAACACTACATGA
 ATGCTGCGATGGTGCATGTCAACAAGGCCCTCAAACCTATTATTCGTCTCTTTCTGGTAGAAGACTTGGT
 TGACTCCTGAAGCTGGCTGTCTCATGTGGCTGATGACCTATGTTGGTGTCTTTTAAATGGAATTACC
 CTTCTGATTCTCGCCGAGCTGCTTGTCTCAGCGTCCCAATTGTCTATGAGAAGTATAAGACACAGATTG
 ACCACTATGTTGGGATTGCCCGGATCAGACCAAGTCAATTGTTGAAAAGATCCAAGCAAAGCTTCTGTG
 AATCGCCAAAAAAAAGGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211332 representing NM_001003934
 Red=Cloning site Green=Tags(s)

MAESSAATQSPSVSSSSSGAEPSALGGGGGSPGACPALGAKSCGSSCADSFVSSSSSQPVSIFFSTSQAGL
 SSLCSDEPPSKSMTSSFLSSSEIHNPDPTTPLGEKSETLGSQFVLAKGKDPLVLLDKKKLDSPQGTNKDR
 VDAPVSLATGIPCSHPSIPDSFPEQPAFLSKEIGPAEEWVVKDQEPKNPNKVPDGEDRSALDFGQSKAEH
 ICTYSLSPSELVAVSEKDSPEPFVEVIDKATFDREFKDLYKENPNDLGGWAAHGDRESPADLLEMNDK
 LFPLRNKEAGRYPSSVLLGRQFSHTTAALLEEVSRVNDMHNFTNEILTWDLPQAKQQANKTSCCTESTG
 LDRSELREIPVINLKTNPQQKMPVCSFNGSTPITKSTGDWTEAFTEGKPVVDYLSSTKEAGNGVPGSS
 QLHSELPGSMPEKWVSGGAATVEVTLPNLRGAWPNSVMGEVTEVDSSGESDDTVIEDITEKPDLSLPSAA
 AKTSEIREIKETPSRETVRSEMCENSEQPQAQPETPTQKSLEGEVASQVNTLNEVTPEKLDMTNNPKVCS
 AAPPVSLNETGFSLTPASAKLESLLGKYVEDTDGSSPEDLMAVLTGAEKGIQVKEEGDVLAVLEKIA
 DFKNTLPVELLHESELGSETKNIKSKYSEDSRETTGGAPTMSPDLEQEQLTIRAIKELGERQAEKVQDE
 GISSGGKLGKQTFAPQSGPQSSSDILEHTDVKTGSDLGIPKNPTI IKNTRIDSISLTKTEMVNKNVLARL
 LSDFPVHDLIFWRDVKKTGFVFGTTLIMLLSLAAFVSVVSYLILALLSVTISFRVYKSVIQAVQKSEE
 GHPFKAYLDVDITLSSEAFHNYMNAAMVHYNKALKLIIRLFLVEDLVDSLKLAVFMWLMTYVGVFNGIT
 LLILAELLVFSVPIVYEKYKTQIDHYVGIARDQTKSIVEKIQAQLPGIAKKAKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

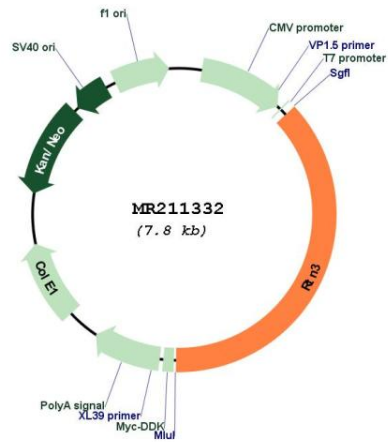
Cloning Scheme:



ACCN: NM_001003934
 ORF Size: 2892 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_001003934.2 , NP_001003934.1
RefSeq Size:	5038 bp
RefSeq ORF:	2895 bp
Locus ID:	20168
UniProt ID:	Q9ES97
Cytogenetics:	19 A
MW:	104.3 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]

Product images:



Circular map for MR211332