

Product datasheet for **MC217856**

Rtn4 (BC032192) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4 (BC032192) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtn4
Synonyms:	ASY, NOGO, NSP-CL, C130026I10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217856 representing BC032192
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTGAAGGTCTAACGCCAGATTTAGTTCAGGAAGCATGTGAAAGTGAAGTGAACGAAGCCACAGGTA
 CAAAGATTGCTTATGAAACAAAAGTGGACTTGGTCCAGACATCAGAAGCTATACAAGAGTCAATTTACCC
 CACAGCACAGCTTTGCCCTCATTGAGGAAGCTGAAGCAACTCCGTACCCAGTTTTGCCTGATATTGTT
 ATGGAAGCGCCATTAAATTCTCTCCTTCCAAGCACTGGTCTTCTGTAGCGCAGCCAGTGCATCCCCAC
 TAGAAGTACCGTCTCCAGTTAGTTATGACGGTATAAAGCTTGGCCTGAAAATCCCCACCATATGAAGA
 AGCCATGAGTGTAGCACTAAAAACATCGGACGCAAAAGGAAGAAATTAAGAGCCTGAAAGTTTTAATGCA
 GCTGCTCAGGAAGCAGAAGCTCCTATATATCCATTGCATGTGATTTAATTAAGAAACAAAGCTCTCCA
 CTGAGCCAAGTCCAGAGTCTCTAATTATTCAGAAATAGCAAAATTTGAGAAGTCGGTGCCTGATCACTG
 TGAGCTCGTGGATGATTCCTCACCCGAATCTGAACCAGTTGACTTATTTAGTGATGATTCATTCCTGAA
 GTCACACAAACACAAGAGGAGGCTGTGATGCTAATGAAGGAGAGTCTCACTGAAGTGTCTGAGACAGTAA
 CACAACACAAACATAAGGAGAGACTTAGTGCTTCACTCAGGAGGTAGGAAAGCCATATTTAGAGTCTTT
 TCAGCCCAATTTACATATTACAAAAGATGCTGCATCTAATGAAATTCCAACATTGACCAAAAAGGAGACA
 ATTTCTTTGCAAAATGGAAGAGTTAATACTGCAATTTATTCCAATGATGACTTACTTTCTTAAGGAAG
 ACAAAATGAAAGAAAGTGAACATTTCCGATTCATCTCCATTGAGATAATAGATGAGTTTCCACATT
 TGTCAGTGCTAAAGATGATTCTCCTAAGGAGTACACTGACCTAGAAGTATCCAACAAAAGTGAATTTGCT
 AATGTCCAGAGCGGGCCAATTCGTTGCCTTGTCTCAGAATTGCCCTGTGACCTTTCTTCAAGAATACAT
 ATCCTAAAGATGAAGCACATGTCTCAGATGAATCTCCTCAAAAGTAGGTCAGTGTATCTAAGGTGCCCTT
 ATTGCTTCCAATGTTTTCTGCTTTGGAATCTCAAATAGAAATGGGCAACATAGTTAAACCCAAAGTACTT
 ACGAAAGAAGCAGAGGAAAACTTCTTCTGATACAGAGAAAGAGGACAGATCCCTGACAGCTGTATTGT
 CAGCAGAGCTGAAATAAACTTCAGTTGTTGACCTCCTGTACTGGAGAGACATTAAGAAGACTGGAGTGGT
 GTTTGGTGCCAGCTTATTCCTGTGCTGTCTCTGACAGTGTTCAGCATTGTGAGTGAACGGCTACATT
 GCCTTGGCCCTGCTCTGTGACTATCAGCTTTAGGATATATAAGGGTGTGATCCAAGCTATCCAGAAAT
 CAGATGAAGGCCACCCATTACAGGCATATTTGGAATCTGAAGTTGCCATATCAGAGGAATTGGTTCCAGAA
 ATATAGTAATTCTGCTCTTGGTCATGTGAACAGCACAAATAAAGAATTGAGGCGTCTCTTCTTAGTTGAT
 GATTTAGTTGATTCCTGAAGTTTGCAGTGTGATGTGGGATTTACTTACGTTGGTGCCTGTTCATG
 GTTTGACACTACTGATTTAGCTCTGATCTCACTTTCAGTATTCTGTTATATGAAACGGCATCAGGC
 GCAGATAGATCATTATCTAGGACTTGCAACAAGAGCGTTAAGGATGCCATGGCCAAAATCCAAGCAAAA
 ATCCCTGGATTGAAGCGCAAAGCAGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2478_b08.zip

Restriction Sites: SgfI-MluI

ACCN: BC032192

Insert Size: 1920 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC032192](#), [AAH32192](#)

RefSeq Size: 2958 bp

RefSeq ORF: 1919 bp

Locus ID: 68585

Cytogenetics: 11 A3.3

Gene Summary: Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules. They regulate membrane morphogenesis in the ER by promoting tubular ER production. They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins. However each isoform have specific functions mainly depending on their tissue expression specificities.[UniProtKB/Swiss-Prot Function]