

Product datasheet for **MR209681**

Rtn4 (BC032192) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4 (BC032192) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR209681 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGAAGGTCTAACGCCAGATTTAGTTCAGGAAGCATGTGAAAGTGAAGTGAACGAAGCCACAGGTA
CAAAGATTGCTTATGAAACAAAAGTGGACTTGGTCCAGACATCAGAAGCTATACAAGAGTCAATTTACCC
CACAGCACAGCTTTGCCCTCATTGAGGAAGCTGAAGCAACTCCGTACCCAGTTTTGCCTGATATTGTT
ATGGAAGCGCCATTAAATTCTCTCCTTCCAAGCACTGGTCTTCTGTAGCGCAGCCAGTGCATCCCCAC
TAGAAGTACCGTCTCCAGTTAGTTATGACGGTATAAAGCTTGGAGCTGAAAATCCCCACCATATGAAGA
AGCCATGAGTGTAGCACTAAAAACATCGGACGCAAAAGGAAGAAATTAAGAGCCTGAAAGTTTTAATGCA
GCTGCTCAGGAAGCAGAAGCTCCTTATATCCATTGCATGTGATTTAATTAAGAAACAAAGCTCTCCA
CTGAGCCAAGTCCAGAGTCTCTAATTATTCAGAAATAGCAAAATTTGAGAAGTCGGTGCCTGATCACTG
TGAGCTCGTGGATGATTCCTCACCCGAATCTGAACCAGTTGACTTATTTAGTGATGATTCATTCCTGAA
GTCCACAAAACACAAGAGGAGGCTGTGATGCTAATGAAGGAGAGTCTCACTGAAGTGTCTGAGACAGTAA
CACAACACAAAACATAAGGAGAGACTTAGTGCTCACCTCAGGAGGTAGGAAAGCCATATTTAGAGTCTTT
TCAGCCCAATTTACATATTACAAAAGTGTGCTAATGAAATTCCAACATTGACAAAAAGGAGACA
ATTTCTTTGCAATGGAAGAGTTAATACTGCAATTTATTCCAATGATGACTTACTTTCTTAAGGAAG
ACAAAATGAAAGAAAGTGAACATTTCCGATTCATCTCCATTGAGATAATAGATGAGTTTCCACATT
TGTCAGTGCTAAAGATGATTCTCCTAAGGAGTACACTGACCTAGAAGTATCCAACAAAAGTGAATTTGCT
AATGTCCAGAGCGGGCCAATTCGTTGCCTTGTCTCAGAATTGCCCTGTGACCTTTCTTTCAAGAATACAT
ATCCTAAAGATGAAGCACATGTCTCAGATGAATTCCTCAAAAAGTAGGTCAGTGTATCTAAGGTGCCCTT
ATTGCTTCCAAATGTTTCTGCTTTGGAATCTCAAATAGAAATGGGCAACATAGTTAAACCCAAAGTACTT
ACGAAAGAAGCAGAGGAAAACTTCTTCTGATACAGAGAAAGAGGACAGATCCCTGACAGCTGATTGT
CAGCAGAGCTGAAATAAACTTCAGTTGTTGACCTCCTGTACTGGAGAGACATTAAGAAGACTGGAGTGGT
GTTTGGTGCCAGCTTATCCTGCTGCTGTCTGACAGTGTTCAGCATTGTGAGTGAACGGCTACATT
GCCTTGGCCCTGCTCTCTGTGACTATCAGCTTTAGGATATATAAGGGTGTGATCCAAGCTATCCAGAAAT
CAGATGAAGGCCACCCATTACAGGCATATTTGGAATCTGAAGTTGCCATATCAGAGGAATTGGTTCCAGAA
ATATAGTAATTCTGCTCTTGGTCATGTGAACAGCACAAATAAAGAATTGAGGCGTCTCTTCTTAGTTGAT
GATTTAGTTGATTCCTGAAGTTTGCAGTGTGATGTGGTATTTACTTACGTTGGTGCCTGTTCATG
GTTTGACACTACTGATTTTAGCTCTGATCTCACTTTCAGTATTCTGTTATATGAAACGGCATCAGGC
GCAGATAGATCATTATCTAGGACTTGCAACAAGAGCGTTAAGGATGCCATGGCCAAAATCCAAGCAAAA
ATCCCTGGATTGAAGCGCAAAGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209681 protein sequence
 Red=Cloning site Green=Tags(s)

MPEGLTPDLVQEACESELNEATGTKIAYETKVDLVQTSEAIQESIYPTAQLCPSFEEAEATPSPVLPDIV
 MEAPLNSLLPSTGASVAQPSASPLEVPSVSYDGIKLEPENPPPYEEAMSVALKTSDAKEEIKEPESFNA
 AAQEAEAPYISIACDLIKETKLSPEFSNYSEIAKFEKSVPDHCELVDSSPESEPVDLFSDDSIPE
 VPQTQEEAVMLMKESLTEVSETVTQHKHKERLSASPQEVGKPYLESFQPNLHITKDAASNEIPTLTKKET
 ISLQMEEFNTAIYSNDDLLSSKEDMKKESETFSDSSPIE.IIDFPTFVSAKDDSPKEYTDLEVSNKSEIA
 NVQSGANSLPCSELPCLDSFKNTYPKDEAHVSDEFKSRSSVSKVPLLLPNVSALESQIEMGNIYKPKVL
 TKEAEEKLPSTDEKEDRSLTAVLSAELNKTSVVDLLYWRDIKKTGVVFGASLFLLLSLTVFSIVSVTAYI
 ALALLSVTISFRIYKGVIQAIQKSDGHPFRAYLESEVAISEELVQKYSNSALGHVNSTIKELRRLFLVD
 DLVDLSLKFVLMWVFTYVGALFNGLTLLILALISLFSIPVIYERHQAQIDHYLGLANKSVKDAMAKIQAK
 IPGLKRKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

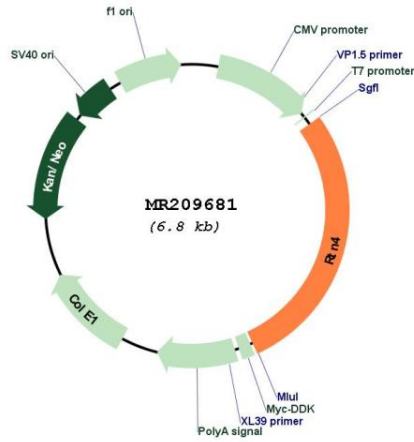


ACCN: BC032192

ORF Size: 1917 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>BC032192, AAH32192</p>
RefSeq Size:	<p>2958 bp</p>
RefSeq ORF:	<p>1919 bp</p>
Locus ID:	<p>68585</p>
Cytogenetics:	<p>11 A3.3</p>
MW:	<p>70.3 kDa</p>
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR209681