

Product datasheet for **RN214501**

Rtn4 (NM_031831) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rtn4 (NM_031831) Rat Untagged Clone
Tag: Tag Free
Symbol: Rtn4
Synonyms: NI-250; Nogo; Nogo-A; r; rat N; rat NogoA; Vp20
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN214501 representing NM_031831
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGACATAGACCAGTCGTCGCTGGTCTCCTCGTCCACGGACAGCCCGCCCGGCTCCGCCCGCT
TCAAGTACCAGTTCGTGACGGAGCCGAGGACGAGGAGGACGAGGAGGAGGAGGAGGACGAGGAGGAGGA
CGACGAGGACCTAGAGGAAGTGGAGGTGCTGGAGAGGAAGCCCGCAGCCGGGCTGTCCGAGCTGCGGTG
CCGCCCGCCCGCCCGCGCCGCTGCTGGACTTCAGCAGCGACTCGGTGCCCGCCCGCGCCCGGGCCGC
TGCCGGCCCGCGCCCTGCCGCTCCTGAGAGGCAGCCATCCTGGGAACGACAGCCCGCGCGCCCGCGCC
ATCCCTGCCCGCCGCTGCCGAGTCTGCCCTCCAAGCTCCCAGAGGACGACGAGCCTCCGGCGAGGCC
CCGCTCCGCCCGCAGCCGGCGCGAGCCCTGGCGGAGCCCGCGCCCGCCCTTCCACGCCGGCCGCGC
CCAAGCGCAGGGGCTCCGGCTCAGTGGATGAGACCCTTTTGGCTTCTCTGCTGCATCTGAGCCTGTGAT
ACCCTCCTCTGCAGAAAAATTATGGATTTGATGGAGCAGCCAGGTAACACTGTTTCGTCTGGTCAAGAG
GATTTCCCATCTGCTCTGTTGAAACTGCTGCCCTCTCTCCTTCTATCTCTCTCACTGTTTCTT
TTAAGAACATGGATACCTTGGTAACTTATCAGCAGTGTATCCTCAGAAGGAACAATTGAAGAACTTT
AAATGAAGCTTCTAAAGAGTTGCCAGAGGGCAACAAATCCATTTGAAATAGAGATTTAGCAGAATTT
TCAGAATTAGAATATTCAGAAATGGGATCATCTTTTAAAGGCTCCCCAAAAGGAGAGTCAGCCATATTAG
TAGAAAACACTAAGGAAGAAGTAATTGTGAGGAGTAAAGACAAAGAGGATTTAGTTTGTAGTGCAGCCCT
TCACAGTCCACAAGAATCACCTGTGGGTAAAGAAGACAGAGTTGTGTCTCCAGAAAAGACAATGGACATT
TTAATGAAATGCAGATGTCAGTAGTAGCACCTGTGAGGGAAGAGTATGCAGACTTTAAGCCATTTGAAC
AAGCATGGGAAGTAAAGATACTTATGAGGGAAGTAGGGATGTGTGGCTGCTAGAGCTAATGTGGAAG
TAAAGTGGACAGAAAATGCTTGAAGATAGCCTGGAGCAAAAAGTCTTGGGAAGGATAGTGAAGGCAGA
AATGAGGATGCTTCTTTCCCGAGTACCCAGAACCTGTGAAGGACAGCTCCAGAGCATATATTACCTGTG
CTTCTTTACCTCAGCAACCGAAAAGCACACAGCAAACTTTCCCTTTGTTAGAAGATCATACTCAGA
AAATAAACAGATGAAAAAAAATAGAAGAAAGGAAGGCCAAATTATAACAGAGAAGACTAGCCCCAAA
ACGTCAAATCCTTTCCTTGTAGCAGTACAGGATTCGAGGCAGATTATGTTACAACAGATACCTTATCAA



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AGGTGACTGAGGCAGCAGTGTCAAACATGCCTGAAGGTCTGACGCCAGATTTAGTTCAGGAAGCATGTGA
AAGTGAATGAATGAAGCCACAGGTACAAAGATTGCTTATGAAACAAAAGTGGACTTGGTCCAAACATCA
GAAGCTATACAAGAATCACTTTACCCACAGCAGACTTTGCCCATATTTGAGGAAGCTGAAGCAACTC
CGTCACCAGTTTTGCCTGATATTGTTATGGAAGCACCATAAATTCTCTCCTTCCAAGCGCTGGTGTTC
TGTAAGTGCAGCCAGTGTATCCCCTGGAAGCACCTCCTCCAGTTAGTTATGACAGTATAAAGCTTGAG
CCTGAAAACCCCCACCATATGAAGAAGCCATGAATGTAGCACTAAAAGCTTTGGGAACAAAGGAGGAA
TAAAAGAGCCTGAAAGTTTTAATGCAGCTGTTTCAGGAAACAGAAGCTCTATATATCCATTGCGTGTGA
TTAATTAAGAAACAAAGCTCTCCACTGAGCCAAAGTCCAGATTTCTCTAATTATTCAGAAATAGCAAAA
TTCGAGAAGTCGGTGCCCGAACACGCTGAGCTAGTGGAGGATTCCTCACCTGAATCTGAACCAGTTGACT
TATTTAGTGATGATTGATTCTGAAGTCCCACAAACACAAGAGGAGGCTGTGATGCTCATGAAGGAGAG
TCTCACTGAAGTGTCTGAGACAGTAGCCAGCACAAAGAGGAGAGACTTAGTGCCTCACCTCAGGAGCTA
GGAAAGCCATATTTAGAGTCTTTTCAGCCCAATTTACATAGTACAAAAGATGCTGCATCTAATGACATTC
CAACATTGACCAAAAAGGAGAAAATTTCTTTGCAAAATGGAAGAGTTTAACTGCAATTTATTCAAATGA
TGACTTACTTTCTTAAGGAAGACAAAATAAAAAGAAAGTAAAACATTTTCAGATTATCTCCGATTGAG
ATAATAGATGAATTTCCACGTTTGTGCTGCTAAAGATGATTCTCTAAATTAGCCAAGGAGTACACTG
ATCTAGAAGTATCCGACAAAAGTAAAATGCTAATATCCAAGCGGGGCAGATTCAATGCCTTGCTTAGA
ATTGCCCTGTGACCTTTCTTCAAGAATATATATCCTAAAGATGAAGTACATGTTTCAGATGAATTTCC
GAAAATAGGTCCAGTGTATCTAAGGCATCCATATCGCCTTCAAATGTCTCTGCTTTGGAACCTCAGACAG
AAATGGGCAGCATAGTTAAATCCAAATCACTTACGAAAGAAGCAGAGAAAAAACTTCTTCTGACACAGA
GAAAGAGGACAGATCCCTGTGAGCTGTATTGTGACGAGAGCTGAGTAAAACCTCAGTTGTTGACCTCCTC
TACTGGAGAGACATTAAGAAGACTGGAGTGGTGTGGTGGCCAGCTTATCCTGCTGCTGCTCTGACAG
TGTTTCAAGCATTGTCAGTGTAAACGGCCTACATTGCCTTGGCCCTGCTCTCGGTGACTATCAGCTTTAGGAT
ATATAAGGGCGTGATCCAGGCTATCCAGAAATCAGATGAAGGCCACCCATTGAGGCATATTTAGAAATCT
GAAGTTGCTATATCAGAGGAATTGGTTCCAGAAATACAGTAAATCTGCTTGGTCAATGTGAACAGCACAA
TAAAAGAACTGAGGCGGCTTTTCTTAGTTGATGATTTAGTTGATTCCCTGAAGTTTGAGTGTGATGTG
GGTGTTTACTTATGTTGGTGCCTTGTTCAATGGTCTGACACTACTGATTTTAGCTCTGATCTCACTCTTC
AGTATTCTGTTATTTATGAACGGCATCAGGTGCAGATAGATCATTATCTAGGACTTGCAAAACAAGAGTG
TTAAGGATGCCATGGCCAAAATCCAAGCAAAAATCCCTGGATTGAAGCGCAAAGCAGAT TGA

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites: SgfI-MluI

ACCN: NM_031831

Insert Size: 3492 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:	<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_031831.1</u> , <u>NP_114019.1</u>
RefSeq Size:	4684 bp
RefSeq ORF:	3492 bp
Locus ID:	83765
UniProt ID:	<u>Q9JK11</u>
Cytogenetics:	14q22
Gene Summary:	a myelin protein that is a potent inhibitor of neurite growth [RGD, Feb 2006]