

Product datasheet for **SC308607**

Nogo A (RTN4) (NM_207520) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo A (RTN4) (NM_207520) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nogo A
Synonyms:	ASY; Nbla00271; Nbla10545; NI220/250; NOGO; NSP; NSP-CL; RTN-X; RTN4-A; RTN4-B1; RTN4-B2; RTN4-C
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_207520 edited
 CCGCGGCAACTGGGGACAGGGCGGGTGGCGCATCACCGGCGGGAGGCAGGAGGAGCAGT
 CTCATTGTTCCGGGAGCCGTACCCACAGTAGGTCCTCGGCTCAGTCGGCCCAGCCCTC
 TCAGTCTCCCAACCCCAACAACCGCCCGGGCTCTGAGACGGGCCCCGGCGGGCGG
 GCAGCAGCTGCAGCATCATCTCCACCCTCCAGCCATGGAAGACCTGGACCAGTCTCTCT
 GGTCTCGTCTCGACAGCCACCCCGCCGAGCCCGGTTCAAGTACCAGTTCGTGAG
 GGAGCCCAGGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGAAGACCT
 GGAGGAGCTGGAGGTGCTGGAGAGGAAGCCCGCCGGGCTGTCCGCGGCCAGTGCC
 CACCGCCCTGCCGCGGCGCGCCCTGATGGACTTCGGAATGACTTCGTGCCGCGGGC
 GCCCGGGGACCCTGCCGCGGCTCCCCCGTCGCCCGGAGCGGCAGCCGTCTTGGGA
 CCCGAGCCGGTGTGTCGACCGTCCCGCGCCATCCCCGCTGTCTGCTGCCGAGTCTC
 GCCCTCAAGCTCCCTGAGGACGACGAGCTCCGGCCCGGCTCCCCCTCTCCCCGGC
 CAGCGTAGCCCCAGGCAGAGCCGTGTGACCCCGCCAGCCCGGCTCCCGCCGCGC
 CCCCTCACCCCGCCGCGCCCAAGCGCAGGGGCTCTCGGGCTCAGTGGATGAGACCT
 TTTTGCTTCTCTGCTGCATCTGAGCCTGTGATACGCTCTCTCAGTGTGACCTCT
 GTATTGGAGACATTAAGAAGACTGGAGTGGTGTGGTGCCAGCCTATTCCTGTCTCT
 TTCATTGACAGTATTCAGCATTGTGAGCGTAACAGCCTACATTGCCTTGGCCCTGTCTC
 TGTGACCATCAGCTTTAGGATATACAAGGTGTGATCCAAGCTATCCAGAAATCAGATGA
 AGGCCACCCATTAGGGCATATCTGGAATCTGAAGTTGCTATATCTGAGGAGTTGGTTCA
 GAAGTACAGTAATTCTGCTCTTGGTTCATGTGAAGTGCACGATAAAGGAATCAGGCGCT
 CTTCTTAGTTGATGATTTAGTTGATTCTCTGAAGTTTGCAGTGTGATGTGGTATTTAC
 CTATGTTGGTGCCTGTTAATGGTCTGACACTACTGATTTTGGCTCTCATTCACTCTT
 CAGTGTTCTGTTATTTATGAACGGCATCAGGCACAGATAGATCATTATCTAGGACTTGC
 AAATAAGAATGTTAAAGATGCTATGGCTAAAATCCAAGCAAAAATCCCTGGATTGAAGCG
 CAAAGCTGAATGAAAACGCCAAAATAATTAGTAGGAGTTCATCTTTAAAGGGGATATTC
 ATTTGATTATACGGGGAGGGTCAGGGAAGAACGAACCTTGACGTTGCAGTGCAGTTTCA
 CAGATCGTTGTTAGATCTTTATTTTAGCCATGCACTGTTGTGAGGAAAAATTACCTGTC
 TTGACTGCCATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTTAAACCG
 TAATCATATCTTTTCTATCTATCTGAGGCACTGGTGGAAATAAAAAACCTGTATATTT
 ACTTTGTTGCAGATAGTCTTGCCGCATCTTGGCAAGTTGCAGAGATGGTGGAGCTAGAAA
 AAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_207520 unedited
 NNNNGGGGGNNNGGGGGTTCAAATTTGTATACGACTCACTATAGCGGCCGGAATT
 CGCACAGGGCGGCAACTGGGACAGGGCGGGTGGCGCATCACCGGCGGGAGGCAGG
 AGGAGCAGTCTCATTGTTCCGGGAGCCGTACCCACAGTAGGTCCTCGGCTCAGTCGGCC
 CAGCCCTCTCAGTCTCCCAACCCCAACAACCGCCCGGCTCTGAGACGGGCCCCG
 GCGGGCGGCGCAGCAGCTGCAGCATCATCTCCACCCTCCAGCCATGGAAGACCTGGACCA
 GTCTCTCTGGTCTGTCCTCGGACAGCCACCCCGCCGAGCCCGGTTCAAGTACCA
 GTTCGTGAGGGAGCCCGAGGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGA
 CGAAGACCTGGAGGAGCTGGAGGTGCTGGAGAGGAAGCCCGCCGGGCTGTCCGCGG
 CCCAGTGCCACCGCCCTGCCCGGCGCGCCCTGATGGACTTCGGAATGACTTCGT
 GCCCGCGGCGCCCGGGACCCCTGCCGCGGCTCCCCCGTCGCCCGGAGCGGCAGCC
 GTCTTGGGACCCGAGCCGGTGTGTCGACCGTCCCGCGCCATCCCCGCTGTCTGCTGC
 CGCAGTCTCGCCCTCAAAGCTCCCTGAGGACGACGAGCCTCCGGCCCGGCTCCCCCTCT
 TCCCCGGNCAGNGTGAGCCCCAGGCAGAGCCGTGTGGACCCCGCCAGCCCGGGTTCC
 CGGCGNGCCCCCTCCACCCCGGCGCCGCAAGCGCAGGGGCTCCTCGGGCCTCAT
 GGATGAGACCTTTTGTCTTCTGCTGGATCTGAGCCTGTGATACT

3' Read Nucleotide Sequence:	>Forward primer walk for NM_207520 unedited CTGTGTCTCCGCTGCGCCGCGCCCCCTCCCCCGCCGCGCCCAAGCGCAGGGGCTCCT CGGGCTCAGTGGATGAGACCCCTTTTGGCTTCTCCTGCTGCATCTGAGCCTGTGATACGCT CCTCTGCAGTTGTTGACCTCCTGTATTGGAGAGACATTAAGAAGACTGGAGTGGTGTGTTG GTGCCAGCCTATTCCTGCTGCTTTCATTGACAGTATTCAGCATTGTGAGCGTAACAGCCT ACATTGCCTTGGCCCTGCTCTCTGTGACCATCAGCTTTAGGATATACAAGGGTGTGATCC AAGCTATCCAGAAATCAGATGAAGGCCACCCATTCAGGGCATATCTGGAATCTGAAGTTG CTATATCTGAGGAGTTGGTTCAGAAGTACAGTAATTCTGCTCTTGGTCATGTGAAGTCA CGATAAAGGAACTCAGGCGCCTCTTCTTAGTTGATGATTTAGTTGATTCTCTGAAGTTTG CAGTGTGATGTGGGTATTTACCTATGTTGGTGCCTTGTTAATGGTCTGACACTACTGA TTTTGGCTCTCATTTCCTCCTCAGTGTTCCTGTTATTTATGAACGGCATCAGGCACAGA TAGATCATTATCTAGGACTTGCAAATAAGAATGTTAAAGATGCTATGGCTAAAATCCAAG CAAAAATCCCTGGATTGAAGCGCAAAGCTGAATGAAAACGCCAAAATAATTAGTAGGAG TTCATCTTTAAAGGGGATATTCATTTGATTATACGGGGAGGGTCAGGGAAGAACGAACCT TGACGTTGCAGTGCAGTTTCACAGATCGTTGTTAGATCTTTTATTTTATAGCCATGCACTG TTGTGAGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAGTATTTGTAAG CTGCTATTGTTATGGATTTAACCCGTAATCAATATCC
Restriction Sites:	Please inquire
ACCN:	NM_207520
Insert Size:	1800 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
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_207520.1](#), [NP_997403.1](#)

RefSeq Size: 2471 bp

RefSeq ORF: 1179 bp

Locus ID: 57142

UniProt ID: [Q9NQC3](#)

Cytogenetics: 2p16.1

Protein Families: Transmembrane

Gene Summary: This gene belongs to the family of reticulon encoding genes. Reticulons are associated with the endoplasmic reticulum, and are involved in neuroendocrine secretion or in membrane trafficking in neuroendocrine cells. The product of this gene is a potent neurite outgrowth inhibitor which may also help block the regeneration of the central nervous system in higher vertebrates. Alternatively spliced transcript variants derived both from differential splicing and differential promoter usage and encoding different isoforms have been identified.

[provided by RefSeq, Jul 2008]

Transcript Variant: This variant (4), also known as Foccen-m2 and RTN4-B2, lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (D), that is missing an internal segment, compared to isoform A.