

Product datasheet for **SC308608**

Nogo A (RTN4) (NM_207521) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nogo A (RTN4) (NM_207521) 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

Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_207521, the custom clone sequence may differ by one or more nucleotides

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ATGGACTTGAAGGAGCAGCCAGGTAACACTATTTTCGGCTGGTCAAGAGGATTTCCCATCT
GTCCTGCTTGAAACTGCTGCTTCTCTTCCCTTCTGTCTCCTCTCAGCCGCTTCTTTC
AAAGAACATGAATACCTTGGTAATTTGTCAACAGTATTACCCACTGAAGGAACACTTCAA
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AGAGATTTAACAGAGTTTTAGAACTAGAACTCAGAAATGGGATCATCGTTCAGTGTC
TCTCCAAAAGCAGAATCTGCCGTAATAGTAGCAAATCCTAGGGAAGAAATAATCGTGAAA
AATAAAGATGAAGAAGAGAAGTTAGTTAGTAATAACATCCTTCATAATCAACAAGAGTTA
CCTACAGCTCTTACTAAATTGGTTAAAGAGGATGAAGTTGTGCTTCAGAAAAAGCAAAA
GACAGTTTTAATGAAAAGAGAGTTGCAGTGAAGCTCCTATGAGGGAGGAATATGCAGAC
TTCAAACCATTTGAGCGAGTATGGGAAGTGAAAGATAGTAAGGAAGATAGTGATATGTTG
GCTGCTGGAGGTAATAATCGAGAGCAACTTGGAAAGTAAAGTGGATAAAAATGTTTTGCA
GATAGCCTTGAGCAAACTAATCACGAAAAAGATAGTGAGAGTAGTAATGATGATACTTCT
TTCCCCAGTACGCCAGAAGGTATAAAGGATCGTTCAGGAGCATATATCACATGTGCTCCC
TTTAACCCAGCAGCAACTGAGAGCATTGCAACAAAACATTTTTCTTTGTTAGGAGATCCT
ACTTCAGAAAATAAGACCGATGAAAAAAAATAGAAGAAAAGAAGGCCAAATAGTAACA
GAGAAGAATACTAGCACCAAAACATCAAACCTTTTCTGTAGCAGCACAGGATTCTGAG
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CCTGAAGGCCTGACTCCAGATTTAGTACAGGAAGCATGTGAAAGTGAATTGAATGAAGTT
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CAAGAGTCACTCTATCCTGCAGCACAGCTTTGCCATCATTGAAAGAGTCAGAAGCTACT
CCTTACCAGTTTTGCCTGACATTGTTATGGAAGCACCATTGAATTCTGCAGTTCCTAGT
GCTGGTGCTTCCGTGATACAGCCAGCTCATCACCATTAGAAGCTTCTTCAGTTAATTAT
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CTTCAAGAAACAGAAGCTCCTTATATATCTATTGCATGTGATTTAATTAAGAAACAAAG
CTTTCTGCTGAACCAGCTCCGGATTTCTCTGATTATTCAGAAATGGCAAAGTTGAACAG
CCAGTGCCTGATCATTCTGAGCTAGTTGAAGATTCCTCACCTGATTCTGAACCAGTTGAC
TTATTTAGTGATGATTCAATACCTGACGTTCCACAAAAACAAGATGAAACTGTGATGCTT

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GTGAAAGAAAGTCTCACTGAGACTTCATTTGAGTCAATGATAGAATATGAAAATAAGGAA
AAACTCAGTGCTTTGCCACCTGAGGGAGGAAAGCCATATTTGGAATCTTTTAAGCTCAGT
TTAGATAACACAAAAGATACCCTGTTACCTGATGAAGTTTCAACATTGAGCAAAAAGGAG
AAAATTCCTTTGCAGATGGAGGAGCTCAGTACTGCAGTTTATTCAAATGATGACTTATTT
ATTTCTAAGGAAGCACAGATAAGAGAACTGAAACGTTTTTCAGATTTCATCTCCAATTGAA
ATTATAGATGAGTTCCTACATTGATCAGTTCTAAAAGTAACTGATTTCTAAATTAGCC
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GCTGGGTCAATTGCCTTGACAGAAATGCCCATGACCTTTCTTTGAAGAACATACAACCC
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AAGGTGCTCTTATTGCCTCCAGATGTTTCTGCTTTGGCCACTCAAGCAGAGATAGAGAGC
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CTGCTGCTTTTATTGACAGTATTCAGCATTGTGAGCGTAACAGCCTACATTGCCTTGCC
CTGCTCTCTGTGACCATCAGCTTTAGGATATACAAGGTGTGATCCAAGCTATCCAGAAA
TCAGATGAAGGCCACCCATTAGGGCATATCTGGAATCTGAAGTTGCTATATCTGAGGAG
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AGGCGCCTCTTCTTAGTTGATGATTTAGTTGATTCTCTGAAGTTTGCAGTGTGATGTGG
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TCACTCTTCAGTGTCTCTGTTATTTATGAACGGCATCAGGCACAGATAGATCATTATCTA
GGACTTGCAAATAAGAATGTTAAAGATGCTATGGCTAAAATCCAAGCAAAAATCCCTGGA
TTGAAGCGCAAAGCTGAATGA

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Restriction Sites:

Please inquire

ACCN:

NM_207521

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:
[NM_207521.1, NP_997404.1](#)
RefSeq Size:

4129 bp

RefSeq ORF:

2961 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 (5), also known as hRTN4-E, differs in the 5' UTR and the 5' coding region, compared to variant 1. The resulting isoform (E) has a shorter N-terminus, compared to isoform A. This variant (5), along with variants 6, 7, 8, 9, 10, and 11, encodes isoform E.