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Product datasheet for SC107922

Nogo A (RTN4) (NM_007008) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo A (RTN4) (NM_007008) 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:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_007008 edited
GAATTCGGCACGAGGCTTCGGTTGAGGAAACGGGTATTTCATGTCTCAGGGAGTAGGTTT
GTGCAGTTACAGCTTTTCTGTTGGTATGCATAATTAATAATTGGAGCTGCAAAGCAGATC
GTGACAAGAGATGGACGGTCAGAAGAAAAATTGGAAGGACAAGGTTGTTGACCTCCTGTA
CTGGAGAGACATTAAGAAGACTGGAGTGGTGTTTGGTGCCAGCCTATTCCTGCTGCTTTC
ATTGACAGTATTCAGCATTGTGAGCGTAACAGCCTACATTGCCTTGGCCCTGCTCTCTGT
GACCATCAGCTTTAGGATATACAAGGGTGTGATCCAAGCTATCCAGAAATCAGATGAAGG
CCACCCATTCAGGGCATATCTGGAATCTGAAGTTGCTATATCTGAGGAGTTGGTTCAGAA
GTACAGTAATTCTGCTCTTGGTCATGTGAACTGCACGATAAAGGAACTCAGGCGCCTCTT
CTTAGTTGATGATTTAGTTGATTCTCTGAAGTTTGCAGTGTTGATGTGGGTATTTACCTA
TGTTGGTGCCTTGTTTAATGGTCTGACACTACTGATTTTGGCTCTCATTTCACTCTTCAG
TGTTCCTGTTATTTATGAACGGCATCAGGCACAGATAGATCATTATCTAGGACTTGCAAA
TAAGAATGTTAAAGATGCTATGGCTAAAATCCAAGCAAAAATCCCTGGATTGAAGCGCAA
AGCTGAATGAAAACGCCCAAAATAATTAGTAGGAGTTCATCTTTAAAGGGGATATTCATT
TGATTATACGGGGGAGGGTCAGGGAAGAACGAACCTTGACGTTGCAGTGCAGTTTCACAG
ATCGTTGTTAGATCTTTATTTTTAGCCATGCACTGTTGTGAGGAAAAATTACCTGTCTTG
ACTGCCATGTGTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTTAAACCGTAA
TCATATCTTTTTCCTATCTATCTGAGGCACTGGTGGAATAAAAAACCTGTATATTTTACT
TTGTTGCAGATAGTCTTGCCGCATCTTGGCAAGTTGCAGAGATGGTGGAGCTAGAAAAAA
AAAAAAAAAAGCCCTTTTCAGTTTGTGCACTGTGTATGGTCCGTGTAGATTAGATTGATG
CAGATTTTCTGAAATGAAATGTTTGTTTAGACGAGATCATACCGGTAAAGCAGGAATGAC
AAAGCTTGCTTTTCTGGTATGTTCTAGGTGTATTGTGACTTTTACTGTTATATTAATTGC
CAATATAAGTAAATATAGATTATATATGTATAGTGTTTCACAAAGCTTAGACCTTTACCT
TCCAGCCACCCCACAGTGCTTGATATTTCAGAGTCAGTCATTGGTTATACATGTGTAGTT
CCAAAGCACATAAGCTAGAAGAAGAAATATTTCTAGGAGCACTACCATCTGTTTTCAACA
TGAAATGCCACACACATAGAACTCCAACATCAATTTCATTGCACAGACTGACTGTAGTTA
ATTTTGTCACAGAATCTATGGACTGAATCTAATGCTTCCAAAAATGTTGTTTGTTTGCAA
ATATCAAACATTGTTATGCAAGAAATTATTAATTACAAAATGAAGATTTATACCATTGTG
GTTTAAGCTGTACTGAACTAAATCTGTGGAATGCATTGTGAACTGTAAAAGCAAAGTATC
AATAAAGCTTATAGACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007008 unedited
ATTTTGTAATCACGACTTTCTATAGNNGGCGGCCGCGCAATTCGGCACGAGGCTTCGGTT
GAGGAAACGGGTATTTCATGTCTCAGGGAGTAGGTTTGTGCAGTTACAGCTTTTCTGTTG
GTATGCATAATTAATAATTGGAGCTGCAAAGCAGATCGTGACAAGAGATGGACGGTCAGA
AGAAAAATTGGAAGGACAAGGTTGTTGACCTCCTGTACTGGAGAGACATTAAGAAGACTG
GAGTGGTGTTTGGTGCCAGCCTATTCCTGCTGCTTTCATTGACAGTATTCAGCATTGTGA
GCGTAACAGCCTACATTGCCTTGGCCCTGCTCTCTGTGACCATCAGCTTTAGGATATACA
AGGGTGTGATCCAAGCTATCCAGAAATCAGATGAAGGCCACCCATTCAGGGCATATCTGG
AATCTGAAGTTGCTATATCTGAGGAGTTGGTTCAGAAGTACAGTAATTCTGCTCTTGGTC
ATGTGAACTGCACGATAAAGGAACTCAGGCGCCTCTTCTTAGTTGATGATTTAGTTGATT
CTCTGAAGTTTGCAGTGTTGATGTGGGTATTTACCTATGTTGGTGCCTTGTTTAATGCGC
TGACACTACTGATTTTGGCTCTCATTTCACTCTTCAGTGTTCCTGTTATTTATGAACGGC
ATCACGCCCAGATAGATCATTATTTACGACTTGCAAATAAGAATGTTAAAGATGCTATGG
CTTAAATTCAAACAAAAATCCCTGGATTGAAGCGCAAAGCTTAATGAATACGCCCCAAAT
CATTAATCAGAGTTCATCCTTACACGCGATATCCATTGGATTATTACGGGGAGGGTTAGG
GAAAAACCAACCTTGACGTTGCCGCGCAGTCTCCCAGATCGCTCGTAAATTCTTTTTCTT
AAGCCTGCCCTTGTTGTGAGGAAAAATACCCTGTCTTGACTGCCCTCGGTCATTATCTTA
GTTACAGTAGTTGTTTGTTTGGATCAACCCTCATTCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007008 unedited
AAATCTTGCCCGCGGCCGCATTCTANGATCGGNTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTAAGCCTATAAGCGGTATTGATACTTTGCTTTTACAGTTCAC
AATGCCTTCCACAAATTTAGTTCAGTACAGCTTAAACCACAAGGGTATAAATCTTCATTT
TGTAATAAAAAATTTCTTGCATAACAAGGTTTGATATTTGCAAACAAACAACATTTTTGG
AAGCATTAGCGTCAGCCCATAAATTTTGGGACAAAATTAACTACAGTCAGTCTGGGCAAT
GAAATTGCTGTTGGAGTTCTATGGGGGGGGCATTTCATGTTGAAAACAGATGGTAGGGCT
CCTAAAAATATTTCTTCTTCTACCTTATGGGCTTTGGAACTACCCATGTATAACCAATGA
CTGACTCTGAAATATCAACCACTGGGGGGGGGCTGGAAGGTAAAGGTCTAAGCTTTGGGA
AACACTATACATATATAATCTATATTTACTTATATGGGCAATTAATATAACAGTAAAAGT
CACAATACACCTAGAACATACCAAAAAAGCAAGCTTTGGCATTCCTGCTTTACCGGAATG
ATCTCCTCTAAACAAACATTTCATTTCAGAAAATCTGCATCAATCTAATCTACCCGGACC
ATACACAGTGCACAAACTGAAAAGGGCTTTTTTTTTTTTTTTTTTAGCTCCCCATCTCT
GCAACTTGCCAAGAAGCGGGAAGATATTTGCAACAAAGAAAAAATACCGGTTTTTTATTC
CACCCGGCCTCATATAGATAGGAACTGATTGATTCCGGTAAAACCCCTCCTAGCCGTTTA
CAATCTTAAGAAGATGAACCCTGGCAGCAAGACCGTAATTTTCCTCCACCGTGCATGCTT
AAAAAAGAATAACACAATTGGAACTGCCTGCAN

Restriction Sites: NotI-NotI

ACCN: NM_007008

Insert Size: 1680 bp

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).

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_007008.2, NP_008939.1

RefSeq Size: 1808 bp

RefSeq ORF: 600 bp

Locus ID: 57142

UniProt ID: Q9NQC3

Cytogenetics: 2p16.1

Domains: Reticulon

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 (3), also known as Foocen-S and Nogo-C, differs in the 5' UTR and the 5' coding region, compared to variant 1. The resulting isoform (C) contains a distinct N-terminus, compared to isoform A.