

Product datasheet for SC128184

Nogo A (RTN4) (NM_020532) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo A (RTN4) (NM_020532) 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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128184 sequence for NM_020532 edited (data generated by NextGen Sequencing)

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ATGGAAGACCTGGACCAGTCTCCTCTGGTCTCGTCTCGGACAGCCACCCCGGCCGAC
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Clone variation with respect to NM_020532.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020532 unedited
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 TCTCTGTGNTCNGGGCTGGGTTGCTCTTTTCGNNNTTTGGGCTTGGGGCCCC
 CGGTCCCCTTTTCGGTTGGCGGGGTTCCCTGTCTGTTGNCGGGGTTTTTTCTTT
 TGGTCTTCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020532 unedited
 TATCTGTGNNACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTAGCT
 CCACCATCTCTGCAACTTGCCAAGATGCGGCAAGACTATCTGCAACAAAGTAAAAATAC
 AGGGTTTTTATCCACCAGTGCCTCAGATAGATAGGAAAAAGATATGATTACGGTTTAA
 ATCCATACATAGCAGCTTACAATACTTAAGATGATGAACACATGGCAGTCAAGACAGGA
 ATTTTTCTCACAAACAGTGCATGGCTAAAAATAAAGATCTAACACGATCTGTGAAACTG
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 CCTTAAAGATGAACTCTACTAATTATTTGGGCGTTTTTCATTAGCTTTGCGCTTCAA
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 TAGATAATGATCTATCTGTGCTGATGCCGTTCAATAAACAGGAACACTGAAGAGTGA
 AATGAGAGCCAAAATCAGTAGTGCAGACCATTAACAAGGCACCAACATAGGTAATAC
 CCACATCAACACTGCAAACTTCAAGAGAATCAACTAAATCATCAACTAAGAAGAGGCGCT
 GAGTTCCTTTATCGTGCAGTTCACATGACCAAGAGCAGAATTACTGTACTTCTGAACAA
 CTCTCAGATATAGCAACTTCAAGATCCAGATATGCCCTGAATGGGTGGCCTTCATCTGA
 TTTCTGGATAGCTTGATCACACCTTGTATATCTAAAGCTGATGGTCACAGA

Restriction Sites:

NotI-NotI

ACCN:

NM_020532

Insert Size:

4500 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_020532.4](#), [NP_065393.1](#)

RefSeq Size: 4871 bp

RefSeq ORF: 3579 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 (1), also known as Nogo-A and RTN-XL, represents the longest transcript, and encodes the longest isoform (A).