

Product datasheet for RC219796

Nogo A (RTN4) (NM_153828) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo A (RTN4) (NM_153828) Human Tagged ORF Clone
Tag:	Myc-DDK
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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219796 representing NM_153828 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGACCTGGACCAGTCTCCTCTGGTCTCGTCTCGGACAGCCACCCCGGCCGAGCCCGGTTCA
AGTACCAGTTCGTGAGGGAGCCCGAGGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGA
AGACCTGGAGGAGCTGGAGGTGCTGGAGAGGAAGCCCGCCGCGGGCTGTCCGCGCCCCAGTGCCACC
GCCCCTGCCGCGCGCGCCCTGATGGACTTCGGAAATGACTTCGTGCCCGCGCCCGGGGACCCC
TGCCGGCCGCTCCCCCGTCCCGCGGAGCGGCAGCCGTCTTGGACCCGAGCCCGGTGTCGTCGACCGT
GCCCGCGCATCCCCGTGTCTGCTGCCGAGTCTCGCCCTCCAAGCTCCCTGAGGACGACGAGCCTCCG
GCCCGGCTCCCCCTCTCCCCGGCCAGCGTGAGCCCCAGGCAGAGCCCGTGTGGACCCCGCCAGCCC
CGGCTCCCGCCGCGCCCTCCACCCCGCCGCGCCCAAGCGCAGGGGCTCCTCGGGCTCAGTGGTTGT
TGACCTCCTGACTGGAGAGACATTAAGAAGACTGGAGTGGTGTGGTGGCCAGCCTATTCTGCTGCTT
TCATTGACAGTATTCAGCATTGTGAGCGTAACAGCCTACATTGCCTTGGCCCTGCTCTGTGACCATCA
GCTTTAGGATATAACAAGGTGTGATCCAAGCTATCCAGAAATCAGATGAAGGCCACCCATTACAGGCATA
TCTGGAATCTGAAGTTGCTATATCTGAGGAGTTGGTTCAGAAGTACAGTAATTCTGCTCTGGTCATGTG
AACTGCACGATAAAGGAAGTCAAGCGCCTCTTCTAGTTGATGATTTAGTTGATTCTCTGAAGTTTGAG
TGTTGATGTGGTATTTACCTATGTTGGTGCCTTGTTAATGGTCTGACACTACTGATTTGGCTCTCAT
TTCCTCTCAGTGTTCCTGTTATTTATGAACGGCATCAGGCACAGATAGATCATTATCTAGGACTGCA
AATAAGAATGTTAAAGATGCTATGGCTAAAATCCAAGCAAAAATCCCTGGATTGAAGCGCAAAGCTGAA

ACGCGTACGCGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC219796 representing NM_153828
 Red=Cloning site Green=Tags(s)

MEDLDQSPLVSSSDSPRPQPAFKYQFVREPEDEEEEEEEEEDEDEDELEELVLERKPAAGLSAAPVPT
 APAAGAPLMDFGNDFVPPAPRGPLPAAPPVAPERQPSWDPSPVSSTVPAPSPLSAAAVSPSKLPEDDEPP
 ARPPPPPPASVSPQAEPVWTPPAPAPAAPPSTPAAPKRRGSSGSVVVDLLYWRDIKKTGVVFGASLFLLL
 SLTVFSIVSVTAYIALALLSVTISFRIYKGVIIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNSALGHV
 NCTIKELRRLFLVDDLVDLSLKFVLMWVFTYVYGALFNGLTLLILALISLFSVPVIYERHQAIQIDHYLGLA
 NKNVKDAMAKIQAKIPGLKRKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153828

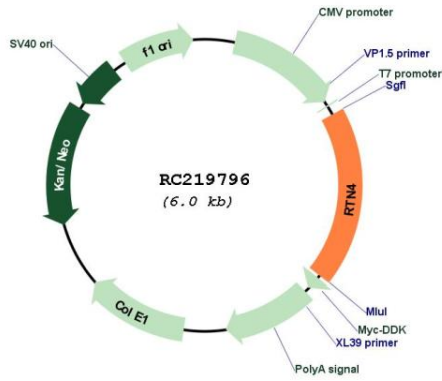
ORF Size: 1119 bp

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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_153828.3
RefSeq Size:	2414 bp
RefSeq ORF:	1122 bp
Locus ID:	57142
UniProt ID:	Q9NQC3
Cytogenetics:	2p16.1
Protein Families:	Transmembrane
MW:	40.1 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC219796