

Product datasheet for **RG220981**

Nogo A (RTN4) (NM_207520) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo A (RTN4) (NM_207520) Human Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220981 representing NM_207520 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAAGACCTGGACCACTCTCTCTGGTCTCGTCTCGGACAGCCACCCCGGCCGAGCCCGGTTCA
AGTACCAGTTCTGTGAGGAGCCCGAGGACGAGGAGGAAGAAGAGGAGGAGGAAGAGGAGGACGAGGACGA
AGACCTGGAGGAGCTGGAGGTGCTGGAGAGGAAGCCCGCCGCGGCTGTCCGCGCCCCAGTGCCACCC
GCCCCGCGCCGCGCGCCCTGATGGACTTCGGAATGACTTCGTGCCGCGCGCCCGGGGACCC
TGCCGGCCGCTCCCCCGTCGCCCCGAGCGGCAGCCGTCTTGGACCCGAGCCCGGTGTCGTCGACCGT
GCCCCGCGCATCCCCGTGTCTGCTGCCGAGTCTCGCCCTCAAGCTCCCTGAGGACGACGAGCCTCCG
GCCCCGCTCCCCCTCTCCCCCGCCAGCGTGAGCCCCAGGCAGAGCCGTGTGACCCCGCCAGCCC
CGGCTCCCGCGCGCCCCCTCCACCCCGCCGCGCCCAAGCGCAGGGGCTCCTCGGGCTCAGTGGATGA
GACCCCTTTTGTCTTCTGTGCTGATCTGAGCCTGTGATACGCTCCTCTGCAGTTGTTGACCTCCTGTAT
TGGAGAGACATTAAGAAGACTGGAGTGGTGTGGTGCCAGCCTATTCCTGCTGCTTTCATTGACAGTAT
TCAGCATTGTGAGCGTAACAGCCTACATTGCCTTGGCCCTGCTCTCTGTGACCATCAGCTTTAGGATATA
CAAGGGTGTGATCCAAGCTATCCAGAAATCAGATGAAGGCCACCCATTAGGGCATATCTGGAATCTGAA
GTTGCTATATCTGAGGAGTTGGTTCAGAGTACAGTAATTCTGCTCTTGGTCATGTGAATGCACGATAA
AGGAATCAGGCGCCTCTTCTAGTTGATGATTTAGTTGATTCTGAAGTTGCAAGTTGATGTGGGT
ATTTACCTATGTTGGTGCCTTGTAAATGGTCTGACACTACTGATTTTGGCTCTCATTTCACTCTTCAGT
GTTCTGTTATTTATGAACGGCATCAGGCACAGATAGATCATTATCTAGGACTTGCAAAATAAGAATGTAA
AAGATGCTATGGCTAAATCCAAGCAAAATCCCTGGATTGAAGCGCAAAGCTGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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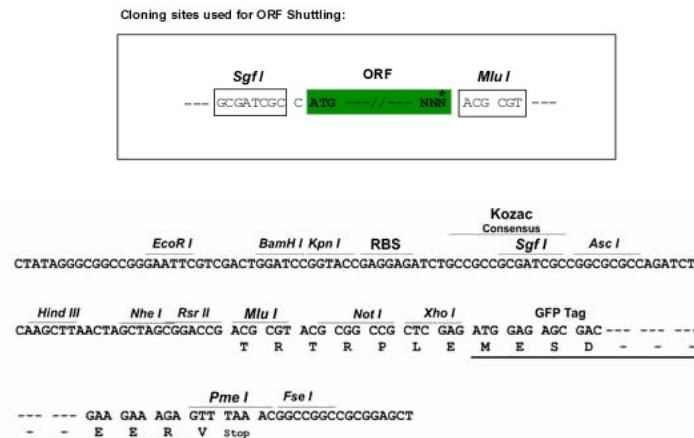
Protein Sequence: >RG220981 representing NM_207520
 Red=Cloning site Green=Tags(s)

MEDLDQSPLVSSSDSPRPQPAFKYQFVREPEDEEEEEEEEEDEDEDELEELVLERKPAAGLSAAPVPT
 APAAGAPLMDFGNDVFPAPRGPLPAAPPVAPERQPSWDSPVSPVSPAPSPLSAAAVSPSKLPEDDEPP
 ARPPPPPPASVSPQAEPVWTPPAPAPAAPSTPAAPKRRGSSGSVDETLFALPAASEPVIRSSAVDLLY
 WRDIKKTGVVFGASLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYKGVIAIQKSDEGHPFRAYLESE
 VAISEELVQKYSNSALGHVNTIKELRRLFLVDDLVDLSLKFVAVLMWVFTYVGALFNGLTLLILALISLFS
 VPVIYERHQAQIDHYLGLANKNVKDAMAKIQAKIPGLKRKAE

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207520

ORF Size: 1176 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:	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]

Product images:



Circular map for RG220981