

Product datasheet for **RC204073**

Nogo Receptor (RTN4R) (NM_023004) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo Receptor (RTN4R) (NM_023004) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nogo Receptor
Synonyms:	NGR; NOGOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204073 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAGGGCGTCCGCTGGAGGGAGCCGGCTGCTGGCATGGGTGCTGTGGCTGCAGGCCTGGCAGGTGG
 CAGCCCCATGCCAGGTGCTGCGTATGCTACAATGAGCCCAAGGTGACGACAAGCTGCCCCAGCAGGG
 CCTGCAGGCTGTGCCCGTGGGCATCCCTGCTGCCAGCCAGCGCATCTTCCTGCACGGCAACCGCATCTCG
 CATGTGCCAGCTGCCAGCTTCCGTGCCTGCCGCAACCTCACCATCCTGTGGCTGCACTCGAATGTCTGG
 CCCGAATTGATGCGGCTGCCTTCACTGGCTGGCCCTCCTGGAGCAGCTGGACCTCAGCGATAATGCACA
 GCTCCGGTCTGTGGACCTGCCACATTCACGGCCTGGGCCGCCTACACACGCTGCACCTGGACCGCTGC
 GGCTGCAGGAGCTGGGCCGGGGCTGTCCGCGGCTGGCTGCCCTGCAGTACCTCTACCTGCAGGACA
 ACGCGCTGCAGGCACTGCCTGATGACACCTTCCGCGACCTGGCAACCTCACACACCTCTCTCTGCAGG
 CAACCGCATCTCCAGCGTCCCCAGCGCGCTTCCGTGGGCTGCACAGCCTCGACCGTCTCTACTGCAC
 CAGAACC GCGTGGCCATGTGCACCCGATGCCTTCCGTGACCTTGGCCGCTCATGACACTCTATCTGT
 TTGCCAACAACTATCAGCGCTGCCACTGAGGCCCTGGCCCCCTGCGTGCCCTGCAGTACCTGAGGCT
 CAACGACAACCCCTGGGTGTGTGACTGCCGGGCACGCCACTCTGGGCTGGCTGCAAGAATTCCGCGGC
 TCCTCCTCCGAGGTGCCCTGCAGCCTCCCGCAACGCTGGCTGGCCGTGACCTCAAACGCTAGTGCCA
 ATGACCTGCAGGGCTGCGCTGTGGCCACCGCCCTTACCATCCATCTGGACCGGAGGGCCACCGATGA
 GGAGCCGCTGGGGCTTCCAAGTGTGCCAGCCAGATGCCGCTGACAAGGCCCTAGTACTGGAGCCTGGA
 AGACCAGCTTCGGCAGGCAATGCGTGAAGGGACGCGTGGCCCGGCTGACAGCCCGCGGGCAACGGCT
 CTGGCCACGGCACATCAATGACTCACCTTTGGGACTCTGCCTGGCTCTGCTGAGCCCCGCTCACTGC
 AGTGCAGGCCGAGGGCTCCGAGCCACCAGGTTCCCCACCTCGGGCCCTCGCCGGAGGCCAGGCTGTTCA
 CGCAAGAACCAGCCCGCAGCCACTGCCGTCTGGGCCAGGCAGGAGCGGGGTGGCGGGACTGGTGACT
 CAGAAGGCTCAGGTGCCCTACCCAGCCTCACCTGCAGCCTCACCCCTGGGCTGGCGCTGGTGTGTG
 GACAGTGCTTGGGCCCTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204073 protein sequence
 Red=Cloning site Green=Tags(s)

MKRASAGGSRLAWVLWLQAWQVAAPCPGACVCYNEPKVTTSCPQQGLQAVPVGIPAASQRIFLHGNRIS
 HVPAASFRACRNL TILWLHNSNVLARIDAAFTGLALLEQLDLSDNAQLRSVDPATFHGLGRLHHLHLDRC
 GLQELGPGLFRGLAALQYL YLQDNALQALPDDTFRDLGNLTHLFLHGNRISVPERAFRGLHSLDRLLH
 QNRVAHVPHAFRDLGRLMTLYLFANNLSALPTEALAPLRALQYLRLNDNPWVDCRARPLWAWLQKFRG
 SSSEVPCSLPQRLAGRDLKRLAANDLQGCAYATGPYHP IWTGRATDEEPLGLPKCCQPDAAADKASVLEPG
 RPASAGNALKGRVPPGDSPPNGSGPRHINDSPFGTLPGSAEPPLTAVRPEGSEPPGFPTSGPRRRPGCS
 RKNRTRSHCRLLQAGSGGGTGDSESGALPSLTCSLTPLGLALVLWTVLGPC

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

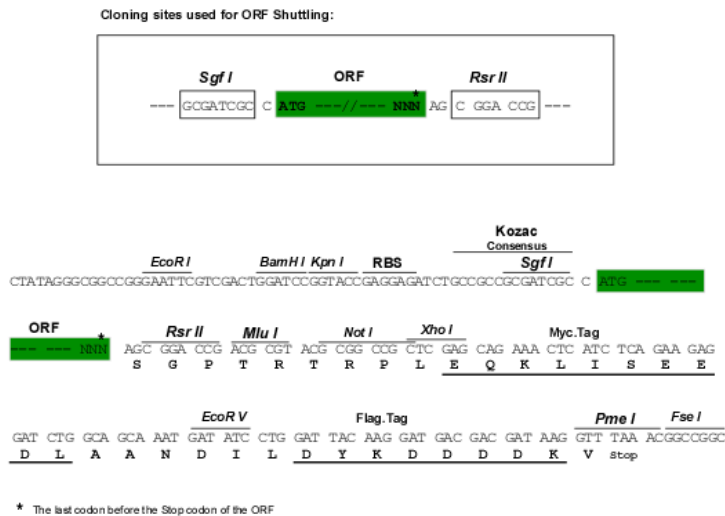
Chromatograms:

https://cdn.origene.com/chromatograms/mk6190_c09.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_023004

ORF Size: 1419 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_023004.6](#)

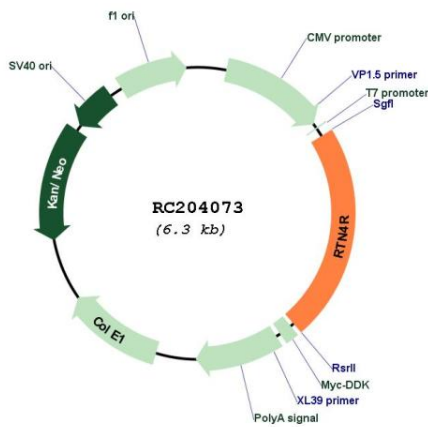
RefSeq Size: 1924 bp

RefSeq ORF: 1422 bp

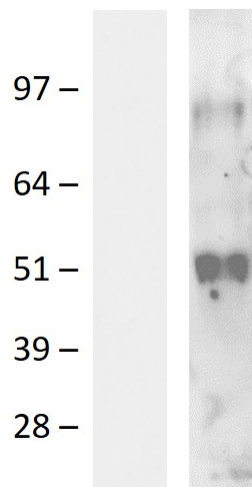
Locus ID: 65078

UniProt ID: [Q9BZR6](#)
Cytogenetics: 22q11.21
Domains: LRRCT, LRR, LRR_TYP
Protein Families: Druggable Genome
MW: 50.7 kDa
Gene Summary: This gene encodes the receptor for reticulon 4, oligodendrocyte myelin glycoprotein and myelin-associated glycoprotein. This receptor mediates axonal growth inhibition and may play a role in regulating axonal regeneration and plasticity in the adult central nervous system. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC204073



Western blot validation of overexpression lysate (Cat# [LY402954]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204073 using transfection reagent PEI.