

## Product datasheet for **RG204073**

### 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:	TurboGFP
Symbol:	Nogo Receptor
Synonyms:	NGR; NOGOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204073 representing NM\_023004  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGAGGGCGTCCGCTGGAGGGAGCCGGCTGCTGGCATGGGTGCTGTGGCTGCAGGCCTGGCAGGTGG  
 CAGCCCATGCCAGGTGCTGCGTATGCTACAATGAGCCCAAGGTGACGACAAGCTGCCCCAGCAGGG  
 CCTGCAGGCTGTGCCCGTGGGCATCCCTGCTGCCAGCCAGCGCATCTTCCTGCACGGCAACCGCATCTCG  
 CATGTGCCAGCTGCCAGCTTCCGTGCCTGCCGCAACCTCACCATCCTGTGGCTGCACTCGAATGTCTGG  
 CCCGAATTGATGCGGCTGCCTTCACTGGCTGGCCCTCCTGGAGCAGCTGGACCTCAGCGATAATGCACA  
 GCTCCGGTCTGTGGACCCTGCCACATCCACGGCCTGGGCCGCTACACACGCTGCACTGGACCCTGTC  
 GGCTGCAGGAGCTGGGCCGGGGCTGTCCGCGGCTGGCTGCCCTGCAGTACCTCTACCTGCAGGACA  
 ACGCGCTGCAGGCACTGCCTGATGACACCTCCGCGACCTGGCAACCTCACACACCTCTCCTGCACGG  
 CAACCGCATCTCCAGCGTCCCGAGCGCGCCTTCGTTGGCTGCACAGCCTCGACCGTCTCCTACTGCAC  
 CAGAACCCTGGCCATGTGCACCCGATGCCTTCCGTGACCTTGGCCGCTCATGACACTCTATCTGT  
 TTGCCAACAACTATCAGCGCTGCCACTGAGGCCCTGGCCCCCTGCGTGCCCTGCAGTACCTGAGGCT  
 CAACGACAACCCCTGGGTGTGTGACTGCCGGGCACGCCACTCTGGGCTGGCTGCAAGAATTCCGCGGC  
 TCCTCCTCCGAGGTGCCCTGCAGCTCCCGCAACCGCTGGCTGGCCGTGACCTCAAACGCCTAGCTGCCA  
 ATGACCTGCAGGGCTGCGCTGTGGCCACCGGCCCTTACCATCCCATCTGGACCGGAGGGCCACCGATGA  
 GGAGCCGCTGGGGCTTCCAAGTGTGCCAGCCAGATGCCGCTGACAAGGCCTCAGTACTGGAGCCTGGA  
 AGACCACTTCGCGAGGCAATGCGCTGAAGGGACGCGTCCCGCCGCTGACAGCCCGCGGGCAACGGCT  
 CTGGCCCCAGGCACATCAATGACTCACCTTTGGGACTCTGCTGGCTCTGCTGAGCCCCGCTCACTGC  
 AGTGGCGGCCGAGGGCTCCGAGCCACCAGGGTTCCCCACCTCGGGCCCTCGCCGGAGGCCAGGCTGTTCA  
 CGCAAGAACCAGCCCGAGCCACTGCCGTCTGGGCCAGGCAGGCAGCGGGGTGGCGGGACTGGTACT  
 CAGAAGGCTCAGGTGCCCTACCCAGCCTCACCTGCAGCCTCACCCCTGGGCTGGCGCTGGTGTGTG  
 GACAGTGTGGGCCCTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204073 representing NM\_023004  
 Red=Cloning site Green=Tags(s)

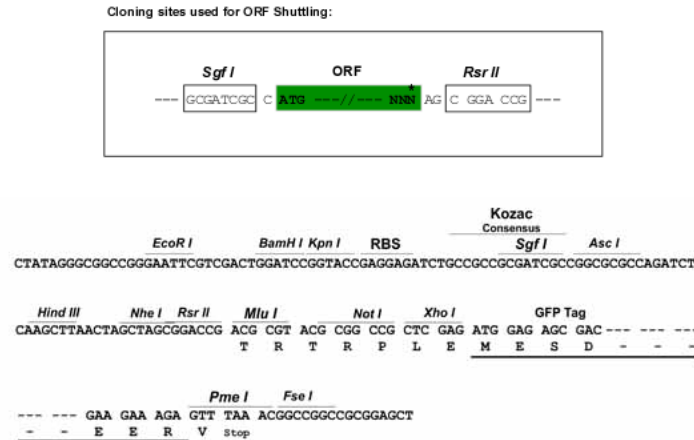
MKRASAGGSRLAWLWLQAWQVAAPCPGACVCYNEPKVTTSCPQQGLQAVPVGIPAASQRIFLHGNRIS  
 HVPAAFRACRNLTIWLHNSVLARIDAAFTGLALLEQLDLSDNAQLRSVDPATFHGLGRLHLLHLDRC  
 GLQELGPGLFRGLAALQYLQDNALQALPDDTFRDLGNLTHLFLHGNRISVPERAFRGLHSLDRLLH  
 QNRVAHVHPHAFRDLGRLMTLYLFANLALPTEALAPLRLALQYLRLNDNPWVDCRARPLWAWLQKFRG  
 SSSEVPCSLPQRLAGRDLKRLAANDLQCAVATGPYHPIWTGRATDEEPLGLPKCCQDAADKASVLEPG  
 RPASAGNALKGRVPPGDSPPGNGSGPRHINDSPFGTLPESAEPPLTAVRPEGSEPPGFPTSGPRRRPGCS  
 RKNRTRSHCRLLGQAGSGGGTGDSESGALPSLTCSLTPLGLALVLWTVLGP

SGP**TRRRLE** – GFP Tag – V

**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.

RefSeq: [NM\\_023004.6](#)

RefSeq Size: 1924 bp

RefSeq ORF: 1422 bp

Locus ID: 65078

UniProt ID: [Q9BZR6](#)

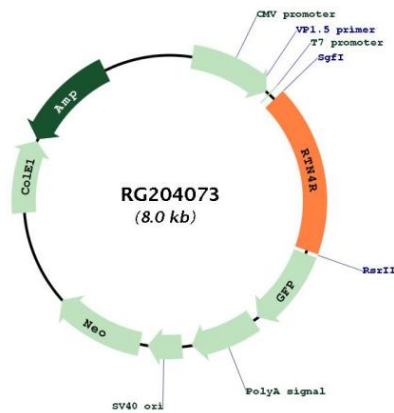
**Cytogenetics:** 22q11.21

**Domains:** LRRCT, LRR, LRR\_TYP

**Protein Families:** Druggable Genome

**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 RG204073