

Product datasheet for **MC205180**

Rtn4r (NM_022982) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4r (NM_022982) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtn4r
Synonyms:	NgR; NgR1; NOGOR
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC058381
 CCTGGCCCCGCGTGCAGCGCCCCGCCAGTCCGCGCCGCCCTCACCTGTGCGCCCGCAGCCCCGCGA
 GCCCAGCCCGGCCGGTAGAGCGGAGCGCCGGAGCCTCGTCCCAGCGCCGGGCGGGACCGGGCCGGAGC
 AGCGGGCGCTGGATGCGGACCCGGCCGCGCAGACGGGCGCCGCCCGAAGCCGCTTCCAGTGCCCGA
 CGCGCCCCGCTCGACCCGAAGATGAAGAGGGCGTCTCCGGAGGAAGCAGGCTGCTGGCATGGGTGTTA
 TGGCTACAGGCCCTGGAGGGTAGCAACACCATGCCCTGGTGCTTGTGTGCTACAATGAGCCCAAGGTAA
 CAACAAGCTGCCCCAGCAGGGTCTGCAGGCTGTGCCACTGGCATCCCAGCCTCTAGCCAGCAATCCT
 CCTGCATGGCAACCGAATCTCTCACGTGCCAGCTGCGAGCTTCCAGTCATGCCGAAATCTACTATCCTG
 TGGCTGCACTCTAATGCGCTGGCTCGGATCGATGCTGCTGCCTTCACTGGTCTGACCCTCTGGAGCAAC
 TAGATCTTAGTGATAATGCACAGCTTATGTCGTGGACCCTACCACGTTCCACGGCCTGGGCCACCTGCA
 CACTGCACCTAGACCGATGTGGCCTGCGGGAGCTGGTCCCAGCCTATTCCGTGGACTAGCAGCTCTG
 CAGTACCTCTACCTACAAGACAACAATCTGCAGGCACTCCCTGACAACACCTTTCGAGACCTGGGCAACC
 TCACGCATCTCTTCTGCATGGCAACCGTATCCCCAGTGTGCTGAGCACGCTTCCGTGGCCTGCACAG
 TCTTGACCGCCTCTTGCACCCAGAACCATGTGGCTCGTGTGCCACCATGCCTTCCGGGACCTTGGC
 CGCCTCATGACCCTCTACCTGTTTGCCAAACCTCTCCATGCTGCTGCAGAGTCTAATGCCCTGA
 GGTCTCTGCAGTACCTGGGACTCAATGACAACCCCTGGGTGTGTGACTGCCGGGACGTCCTACTCTGGG
 CTGGCTGCAGAAGTCCGAGGTTCTCATCAGAGGTGCCCTGCAACCTGCCCAACGCCTGGCAGACCGT
 GATCTTAAGCGCCTCGCTGCCAGTGACCTAGAGGGCTGTGCTGTGGCTTCAAGACCTTCCGTCCCATCC
 AGACCAGTCACTGATGAGGAGCTGTGAGCCTCCCAAGTGTGCCAGCCAGATGCTGCAGACAA
 AGCCTCAGTACTGGAACCCGGGAGGCCAGCTTCTGCCGAAACGCCCTCAAGGGACGTGTGCTCCCGGT
 GACTCCACCAGGCAATGGCTCAGGCCCTCGGCACATCAATGACTCTCCATTTGGAACCTTGGCCAGCT
 CTGCAGAGCCCCACTGACTGCCCTGCGCCTGGGGTTCCGAGCCACCAGGACTTCCACCCTGGTCC
 CCGCAGGAGGCCAGGTTGTTCCCGGAAGAATCGCACCCGACCCACTGCCGTCTGGGCCAGGCGGAAGT
 GGGGCCAGTGAACAGGGGACGCGAGAGGGTTCAGGGGCTCTGCCTGCTTGGCCTGCAGCCTTGCTCCTC
 TGGCCTTGCAGTACTTTGGACAGTCTTGGGCCCTGCTGACCAGCCACCAGCCACCAGGTGTGTGT
 ACATATGGGGTCTCCCTCCACGCCGCCAGCCAGAGCCAGGGACAGGCTCTGAGGGGACAGCCAGGCCCTC
 CCTGACAGATGCCTCCCCACCAGCCACCCCATCTCCACCCATCATGTTTACAGGGTCCGGGGGTGG
 CGTTTGTCCAGAACGCCACCTCCACCCGGATCGCGGTATATAGAGATATGAATTTTATTTTACTTGTG
 TAAATATCGGATGACGTGGAATAAAGAGCTCTTTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI

ACCN: NM_022982

Insert Size: 1422 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:	BC058381 , AAH58381
RefSeq Size:	1959 bp
RefSeq ORF:	1422 bp
Locus ID:	65079
UniProt ID:	Q99PI8
Cytogenetics:	16 A3
Gene Summary:	<p>Receptor for RTN4, OMG and MAG (PubMed:11201742, PubMed:12089450, PubMed:15504325, PubMed:18411262, PubMed:22923615). Functions as receptor for the sialylated gangliosides GT1b and GM1 (PubMed:18411262). Besides, functions as receptor for chondroitin sulfate proteoglycans (PubMed:22406547). Can also bind heparin (PubMed:22406547). Intracellular signaling cascades are triggered via the coreceptor NGFR (By similarity). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:22325200). Mediates axonal growth inhibition (By similarity). Mediates axonal growth inhibition and plays a role in regulating axon regeneration and neuronal plasticity in the adult central nervous system (PubMed:11201742, PubMed:12089450, PubMed:15504325, PubMed:22923615). Plays a role in postnatal brain development (PubMed:27339102). Required for normal axon migration across the brain midline and normal formation of the corpus callosum (PubMed:27339102). Protects motoneurons against apoptosis; protection against apoptosis is probably mediated via interaction with MAG (PubMed:26335717). Acts in conjunction with RTN4 and LINGO1 in regulating neuronal precursor cell motility during cortical development (PubMed:20093372). Like other family members, plays a role in restricting the number dendritic spines and the number of synapses that are formed during brain development (PubMed:22325200).</p> <p>[UniProtKB/Swiss-Prot Function]</p>