

Product datasheet for **MC203049**

Rtn4rl1 (NM_177708) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4rl1 (NM_177708) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rtn4rl1
Synonyms:	Ngr3; Ngrh2; Ngrl2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC030471
 CCACGCGTCCGGGAAGGGAGGCGCCCGCTCGGCGGATCGCTCGGTCTGCAAACGCGCGCCGGGCGCTT
 TCCCGGAGCTAGGCTGTGCGTACGAGCGCCCTTTTGCAGCAGCCGCTGCCGAGGGGGCGGGGAAGAGGG
 GACATCGGCTGGCCGGCTAGGGGGCGGGTCCCCCTCAAACCCTGCAAAGTGTGGGGCGGCAGAG
 ATCAGGCCCGCGCTCGGCGGAGCAAGCCACTCGCCCGGGGTGAGCGAGCGCACCGCGTTGGTTGGCAG
 CGCCGCGGTTGCTAGCAGGCGCCGGTCCCTGAGCACCGGGTTGGGCTACCATGCCCTGCGGGACCG
 GGCCGCGGGCAACAAGCGATTCCCGCTTGGCCCGCTCGACGCGCTCGGATTAGCTGCAGTGGCGC
 CCAGGGATTTGAATCTGGACCCAGGAGGAGCGCGCTAGGCCGACCTCGGAGCGCGCCCGCGGCC
 AACATGCTTCGAAAGGGTGTGTGTGAATTGCTGCTGTTGCTGCTCGTGGAGAGTACCTCTGGGTG
 GTGGTTGTCTCGAGACTGTGTGTGTACCCTGCGCCATGACTGTCAGTGCAGGACACAACATTTGC
 TGCCATCCCGAGGGCATCCCAGAGGACAGTGAAGCATCTTCTGCAGAAACAATCGCATCACCTTCTC
 CAGCAGGGCCACTTACGCCCGCCATGGTACCCTCTGGATCTACTCCAACAACATCACTTTATTGCTC
 CCAACACCTTCGAGGGCTTTGTGCATCTGGAGGAGTACCTTGGAGACAACCGACAGTGCGAACGCT
 GGCACCCGAGACCTTCAAGGCCTGGTGAAGCTTACGCCCTCTACCTCTATAAGTGTGGACTGAGCGCC
 CTGCCCGCAGGCATCTTTGGTGGCTGCACAGCCTGCAGTATCTACTTGCAGGACAACCATATCGAGT
 ACCTCAAAGATGACATCTTTGTGGACCTGGTCAATCTCAGTCACTTGTCTCCATGGTAACAAGCTATG
 GAGCCTGGGCAAGGCATCTCCGGGGCTGGTGAACCTGGACCGGTTGCTGCTGCATGAGAACCAGCTA
 CAGTGGGTTACCACAAGGCTTTCCATGACCTCCACAGGTAACCACCCTCTTTCTTCAACAACAGCC
 TCACTGAGCTGCAGGGTACTGTCTGGCCCCCTGGTGGCCTGGAGTTCCTTCGCTCAATGGGAATGC
 TTGGGACTGTGGCTGCCGGGCACGTTCCCTGTGGGAATGGCTGCGAAGGTTCCGTGGCTTAGCTCTGT
 GTCCCCGCGGACCCCGAGCTGCGGCAAGGCCAGGATCTGAAGCTGCTGAGGGTGGAGGACTTCCGGA
 ACTGCACAGGACCAAGTCTCCTCACCAGATCAAGTCTCACACGTTACCACCTTGACAGGGCTGCCCG
 CAAGGAGCACCATCCGTCCATGGGGCTCCAGGGACAAAGGCCACCCACATGGCCATCCGCCTGGCTCC
 AGGTCAAGTTACAAGAAGGCAGGCAAGAAGTGCACAGCCAGCCAGGAACCGGAACCGATCTCAAGGTGA
 GCTCTGGGAAAGAGCTTACCGAACTGCAGGACTATGCCCCGACTATCAGCACAAGTTACGCTTTGACAT
 CATGCCACCGCACGACCCAAGAGGAAGGGCAAGTGTGCTCGCAGGACCCCATCCGTGCCCCAGTGGG
 GTGCAGCAGGCATCCTCAGGCACGGCCCTTGGGGCCCACTCCTGGCCTGGATACTGGGGCTGGCAGTCA
 CTCTCCGCTGAGGACCCAGGGCTCCGTACCCAGCACTGCCACATGTCCAGCAAGGAACAGAAATTTTTT
 CTTCTTTCTTTCTTTCTTTCTTTTTTTTTTCTAAGTGAAGATCTGCTGGGTTTCAGGAAAAGGCTGC
 TGAAGCCTTCAGCCACCGTCTGGACCCTCCTGGTGGATTATAAGCCAAAATGTACAGCCGTAGACGGG
 AAGGGTATCACGTCTCACTCGGCTGTCTGACCGAGCGCCTCTGGACCGTATCCACTCCAGCACAGTGGT
 CAAAGGCACGCAAGTGAGTCATTAGTGGTGTCCGGGACATGCGCCCTTGAAGAAGCTGGCTCTCGGGA
 AGCCTGGTCATTTGGAGAGAAGGGCTGAAGGACCTGCTGGTTTTGGAAGGAGCAGGACTCAGAACAAGG
 CTCTCCAGAGCCAGCTGGGGCAACCAGCAATCTCAGAGCACTTTGGCTCTTGTCTGAGATCACTTAGT
 TAACCTGCCCTGTCCAACCCTATGCCACCCTCAGTCCCTATCCATGGGGTAAATGCCTCTCATTCTGAC
 GTCTCAGGCAGCCCCGGCAGACCTGCTGGGGTCCAAGAACAATCACCAGGAGAGATCGCCAGTGGGA
 TGACATTTAGAACTGACTCGCAATGAGAGTACACAGAAGGTGCAGTTTTATACCTATGTCACCTTATA
 TATATCTCACTTGCCACACACCCACATAATATATATATATAAAATATATAAATGCACAGGTCCC
 CCAACCCACTCCTACCAAACCTGTATGTCTTATCATGTTTATAAACTATACGGGAACCTAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_177708

Insert Size: 1338 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:	<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:	<u>BC030471</u> , <u>AAH30471</u>
RefSeq Size:	2681 bp
RefSeq ORF:	1338 bp
Locus ID:	237847
UniProt ID:	<u>Q8K0S5</u>
Cytogenetics:	11 B5
Gene Summary:	Cell surface receptor that plays a functionally redundant role in postnatal brain development and in regulating axon regeneration in the adult central nervous system (PubMed:22406547, PubMed:27339102). Contributes to 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 by MAG (PubMed:26335717). Plays a role in inhibiting neurite outgrowth and axon regeneration via its binding to neuronal chondroitin sulfate proteoglycans (PubMed:22406547). Binds heparin (PubMed:22406547). 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). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:22325200).[UniProtKB/Swiss-Prot Function]