

Product datasheet for MC214284

Rtn4rl2 (NM_199223) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rtn4rl2 (NM_199223) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rtn4rl2
Synonyms: Ngr2; Ngrh1; Ngrl3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC214284 representing NM_199223
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCGGGCTCCGGCGCTGCTGCAAGTCTGCCTCAGCCTGCCTACTGCTGACACTCCTGGCCC
 TTCCTTCGCTGACCCCACTGTCTATGCTCTGCACCTGCTACTCCTCCCGCCACCGTGAGCTGCCA
 GGCCAACAACCTCTCCTCAGTCCGCTGTCTTCCACCCAGTACACAGAGACTTCTTGCAGAACAAC
 CTATCCGCTCACTGCGGCCAGGCACCTTTGGGCCAACCTGCTCACCTGTGGCTTTCTCAACAACC
 TCTCCACCATCCACCCTGGCACCTTCCGCCACCTGCAGGCCCTAGAAGAAGTGGACCTCGGTGACAACCG
 GCACCTGCGCTCCCTGGAGCCGACACCTTCCAGGGTCTGGAGAGGCTGCAGTCACTACACCTGTATCGT
 TGCCAGCTCAGCAGCCTGCCTGGCAACATTTCCGAGGCTTGGTCAAGCTACAGTACCTCTACCTCCAGG
 AGAACAGCCTGCTCCATCTACAGGATGACTTGTTCGCGGACCTGGCCAACCTGAGCCACCTTCTCTCCA
 CGGAACCGCTGCGGCTGCTCACGGAGCAGTGTTCGCGGCTTGGGCAGCCTGGACCGGCTGTGCTG
 CACGGGAACCGGCTGCAGGGCGTGCACCGCGCGGCTTCCACGGCCTCAGCCGCCTCACCATCCTTACC
 TGTTCAACAACAGCCTGGCCTCGCTGCCGGGAGAGGCGCTGGCCGACCTGCCGGCGCTCGAGTTCCTGCG
 GCTCAACGCCAACCCCTGGGCGTGCAGTGCAGCGCTCGGCCGCTTGGGCTTGGTCCAGCGCGCGCGG
 GTGTCCAGCTCCGACGTGACCTGCGCCACCCCGCCGAGCGCCAGGGCCGGGACCTGCGCGCGCTGCGCG
 ACTCCGATTTCCAAGCGTCCCGCCGCCACGCCACGCGGCCGGGAGCCGCGCCCGGCAACAGCTC
 TTCCAACCACTGTACGGCGTGGCCGAGGCTGGCGCTCCCCCGCAGACCCGTCCACGCTTACCAGAT
 CTGCCCGCGAGGACTCGCGGGGCGCCAGGGCGGGGACGCGCCACCGAGGACGACTACTGGGGGGCT
 ACGGGCGGAGGATCAGCGGGGCGAGCAGAGTGTCCCGGGCCGCTGCCAGGCGCCGAGACTCGCG
 TGGCCCCGCTCTCGCCGGGCTGCGCACCCCTCTGCTGCCTTGGCCCTGGCGCTCCATCACCTC
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_199223
Insert Size:	1263 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>NM_199223.1</u> , <u>NP_954693.1</u>
RefSeq Size:	1263 bp
RefSeq ORF:	1263 bp
Locus ID:	269295
UniProt ID:	<u>Q7M6Z0</u>
Cytogenetics:	2 D
Gene Summary:	Cell surface receptor that plays a functionally redundant role in the inhibition of neurite outgrowth mediated by MAG (By similarity). Plays a functionally redundant role in postnatal brain development (PubMed:27339102). Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum (PubMed:27339102). Does not seem to play a significant role in regulating axon regeneration in the adult central nervous system (PubMed:22406547). Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG (PubMed:26335717). 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]