

Product datasheet for **SC310413**

RTN4RL2 (NM_178570) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTN4RL2 (NM_178570) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTN4RL2
Synonyms:	NgR2; NGRH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310413 representing NM_178570. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCCGGGCTCAGGCGCTGCTGCAAGCTCCCGCCTCGGCCTGCCTCCTGCTGATGCTCCTGGCC
CTGCCCTGGCGGCCCCAGCTGCCCATGCTCTGCACCTGCTACTCATCCCCGCCACCGTGAGCTGC
CAGGCCAACAACTTCTCCTCTGTGCCGTGTCCCTGCCACCCAGCACTCAGCGACTTCTCCTGCAGAAC
AACCTCATCCGCACGCTGCGGCCAGGCACCTTTGGGTCCAACCTGCTCACCTGTGGCTCTTCTCCAAC
AACCTCTCACCATCTACCCGGGCACTTCCGCCACTTGAAGCCCTGGAGGAGCTGGACCTCGGTGAC
AACCGGCACCTGCGCTCGCTGGAGCCCGACACCTTCCAGGGCCTGGAGCGGCTGCAGTCGCTGCATTG
TACCGCTGCCAGCTCAGCAGCCTGCCCGCAACATCTTCCGAGGCCTGGTCAGCCTGCAGTACCTCTAC
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TTCTCCACGGGAACCGCCTGCGGCTGCTCACAGAGCAGTGTTTCGCGGCTGGGCAGCCTGGACCGG
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ATCCTCTACCTGTTCAACAACAGCCTGGCCTCGCTGCCGGCGAGGCGCTCGCCGACCTGCCCTCGCTC
GAGTTCCTGCGGCTCAACGCTAACCCCTGGGCGTGCAGTGCAGCGCGCGGCGCTTGGGCTGGTTTC
CAGCGCGCGCGCGTGTCCAGCTCCGACGTGACCTGCGCCACCCCCGGAGCGCCAGGGCCGAGACCTG
CGCGGCTCCGCGAGCCGACTCCAGGCGTGTCCGCCACCCCGGCGGCCACCCAGCGGCGGGCAGCCGCG
CGCGGCAACAGCTCCTCAACCACCTGTACGGGGTGGCCGAGGCGGGGGCGCCCCAGCCGATCCCTCC
ACCCTCTACCGAGATCTGCCTGCCGAAGACTCGCGGGGGCGCCAGGGCGGGGACGCGCTACTGAGGAC
GACTACTGGGGGGGTACGGGGGTGAGGACCAGCGAGGGGAGCAGATGTGCCCGGCGCTGCCTGCCAG
GCGCCCCCGACTCCCGAGGCCCTGCGCTCTCGGCCGGGCTCCCCAGCCCTCTGCTTGCCTCCTGCTC
CTGGTGCCCCACCACCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_178570
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_178570.2
RefSeq Size:	2220 bp
RefSeq ORF:	1263 bp
Locus ID:	349667
UniProt ID:	Q86UN3
Cytogenetics:	11q12.1
Protein Families:	Druggable Genome
MW:	46.1 kDa
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. Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum. Does not seem to play a significant role in regulating axon regeneration in the adult central nervous system. Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG (By similarity). 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]