

Product datasheet for SC307217

RTN4RL1 (NM_178568) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTN4RL1 (NM_178568) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTN4RL1
Synonyms:	NgR3; NGRH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307217 representing NM_178568. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTTCGCAAAGGGTGTGTGGAGTTGCTGTGCTGTTGGTAGCTGCGGAGCTGCCCTGGGTGGT
GGCTGCCACGGGACTGTGTGTGCTACCGGCCCATGACGGTCAGCTGCCAGGCGCACAACTTTGCA
GCCATCCCGAGGGCATCCCGTGGACAGCGAGCGCTTCTCAGACAACCGCATCGGCCTCTC
CAGCCCGCCACTTCAGCCCGCCATGGTCACCCTGTGGATCTACTCGAACAACATCACCTACATCCAC
CCCAGCACCTTCGAGGGCTTCGTGCACCTGGAGGAGCTGGACCTCGGCGACAACCGGCAGCTGCGGACG
CTGGCACCGGAGACCTTCAGGGCTGGTGAAGCTTCACGCCCTACCTCTACAAGTGTGGGCTCAGC
GCCTTGCCGGCCGGCTTTGGCGGCCTGCACAGCCTGCAGTACCTCTACCTGCAGGACAACCACATC
GAGTACCTCCAGGACGACATCTTCGTGGACCTGGTCAACCTCAGCCACCTGTTTCTCCACGGCAACAAG
CTGTGGAGTCTGGGCCGGGCACCTTCGGGGCCTGGTGAACCTGGACCTCTTTTGTGCACGAGAAC
CAGCTGCAGTGGTCCACCACAAGGCGTTCACGACCTCCGAGGCTGACCACCTCTTCTCTTCAAC
AACAGCCTCTCGGAGTGCAGGGTGAAGTGCCTGGCCCCGCTGGGGCCCTGGAGTTCTCCGCCTCAAC
GGCAACCCTGGGACTGTGGTTGTGCGCGCGCTCCCTGTGGGAATGGCTGCAGAGGTTCCGGGGCTCC
AGCTCCGCTGTCCCTGTGTGTCCTGGGCTGCGGCACGGCCAGGACCTGAAGTGTGAGGGCCGAG
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AGGGCCGCGCAAGGAACCACTCACCCACGGCCCAACAGGAGCAAGGGCCACCCGACGGCCCC
CGGCCCGCCACAGGAAGCCGGGAAGAACTGCACCAACCCAGGAACCGCAATCAGATCTTAAGGCG
GGCGCCGGGAAACAGGCCCGAGCTGCCAGACTATGCCAGACTACCAGCACAAGTTCAGTTTGTGAC
ATCATGCCTACGGCCCGCCCAAGAGGAAGGGCAAGTGTGCCCGAGGACCCCATCCGTGCCCCAGC
GGGGTGCAGCAGGCTCCTCGGCCAGTTCCTGGGGCCTCCCTCTGGCCTGGACTGGGGCTGGCG
GTCACTCTCCGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	□
ACCN:	NM_178568
Insert Size:	1326 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_178568.3
RefSeq Size:	3625 bp
RefSeq ORF:	1326 bp
Locus ID:	146760
UniProt ID:	Q86UN2
Cytogenetics:	17p13.3
Protein Families:	Druggable Genome
MW:	49.1 kDa
Gene Summary:	<p>Cell surface receptor. Plays a functionally redundant role in postnatal brain development and in regulating axon regeneration in the adult central nervous system. Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum. Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG. Plays a role in inhibiting neurite outgrowth and axon regeneration via its binding to neuronal chondroitin sulfate proteoglycans. Binds heparin (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]</p>