

Product datasheet for RG217072

RTN4RL2 (NM_178570) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RTN4RL2 (NM_178570) Human Tagged ORF Clone

Tag: TurboGFP Symbol: RTN4RL2

Synonyms: NgR2; NGRH1

Mammalian Cell Neomycin

Selection:

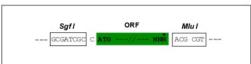
Vector: pCMV6-AC-GFP (PS100010)

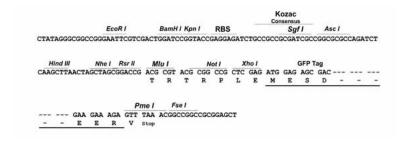
E. coli Selection: Ampicillin (100 ug/mL)

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:







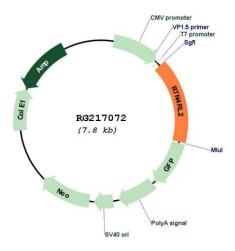
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Plasmid Map:



ACCN: NM_178570 **ORF Size:** 1260 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 178570.3</u>



RTN4RL2 (NM_178570) Human Tagged ORF Clone - RG217072

 RefSeq Size:
 1263 bp

 RefSeq ORF:
 1263 bp

 Locus ID:
 349667

 UniProt ID:
 Q86UN3

 Cytogenetics:
 11q12.1

Protein Families: Druggable Genome

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]