

Product datasheet for RC210970L3

OriGene Technologies, Inc.

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R Cadherin (CDH4) (NM_001794) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: R Cadherin (CDH4) (NM_001794) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: R Cadherin

Synonyms: CAD4; R-CAD; RCAD

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC210970).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001794

ORF Size: 2748 bp





R Cadherin (CDH4) (NM_001794) Human Tagged Lenti ORF Clone - RC210970L3

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: NM 001794.2

 RefSeq Size:
 3063 bp

 RefSeq ORF:
 2751 bp

 Locus ID:
 1002

 UniProt ID:
 P55283

Cytogenetics: 20q13.33

Domains: Cadherin C term, CA

Protein Families: Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

MW: 100.28 kDa

Gene Summary: This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a

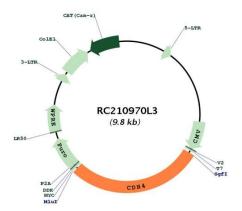
calcium-dependent cell-cell adhesion glycoprotein comprised of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. Based on studies

in chicken and mouse, this cadherin is thought to play an important role during brain

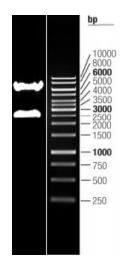
segmentation and neuronal outgrowth. In addition, a role in kidney and muscle development is indicated. Of particular interest are studies showing stable cis-heterodimers of cadherins 2 and 4 in cotransfected cell lines. Previously thought to interact in an exclusively homophilic manner, this is the first evidence of cadherin heterodimerization. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]



Product images:



Circular map for RC210970L3



Double digestion of RC210970L3 using Sgfl and Mlul