

## Product datasheet for RC220434L1

#### OriGene Technologies, Inc.

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## Calcipressin 1 (RCAN1) (NM\_004414) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Calcipressin 1 (RCAN1) (NM\_004414) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Calcipressin 1

Synonyms: ADAPT78; CSP1; DSC1; DSCR1; MCIP1; RCN1

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

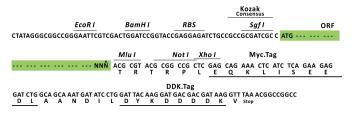
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC220434).

Sequence:

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_004414

ORF Size: 756 bp





### Calcipressin 1 (RCAN1) (NM\_004414) Human Tagged Lenti ORF Clone - RC220434L1

**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 004414.5</u>

RefSeq Size: 2457 bp RefSeq ORF: 759 bp

**Locus ID:** 1827

 UniProt ID:
 P53805

 Cytogenetics:
 21q22.12

**Domains:** Calcipressin

**Protein Families:** Transcription Factors

**MW:** 27.9 kDa

**Gene Summary:** The protein encoded by this gene interacts with calcineurin A and inhibits calcineurin-

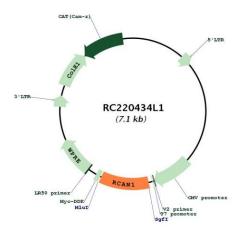
dependent signaling pathways, possibly affecting central nervous system development. This gene is located in the minimal candidate region for the Down syndrome phenotype, and is overexpressed in the brain of Down syndrome fetuses. Chronic overexpression of this gene

Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

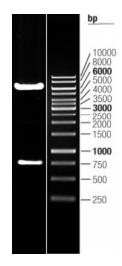
may lead to neurofibrillary tangles such as those associated with Alzheimer disease.



# **Product images:**



Circular map for RC220434L1



Double digestion of RC220434L1 using Sgfl and Mlul  $\,$