

## **Product datasheet for RC214728**

#### OriGene Technologies, Inc.

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### Calcipressin 1 (RCAN1) (NM 203418) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Calcipressin 1 (RCAN1) (NM\_203418) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: Calcipressin 1

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

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-Entry (PS100001) **E. coli Selection:** Kanamycin (25 ug/mL)

ORF Nucleotide >RC214728 representing NM\_203418

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

 ${\sf GAGGCCGAGTACACGCCGATCCACCTCAGC}$ 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214728 representing NM\_203418

Red=Cloning site Green=Tags(s)

MHFRNFNYSFSSLIACVANSDIFSESETRAKFESLFRTYDKDITFQYFKSFKRVRINFSNPFSAADARLQ LHKTEFLGKEMKLYFAQTLHIGSSHLAPPNPDKQFLISPPASPPVGWKQVEDATPVINYDLLYAISKLGP

GEKYELHAATDTTPSVVVHVCESDQEKEEEEEMERMRRPKPKIIQTRRPEYTPIHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



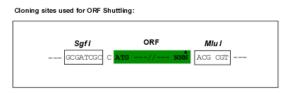


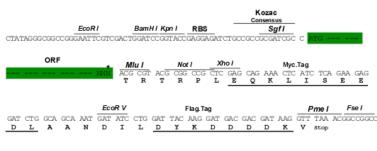
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6119">https://cdn.origene.com/chromatograms/mk6119</a> a11.zip

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM 203418

ORF Size: 591 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.

**RefSeg:** NM 203418.3

RefSeq Size: 2434 bp
RefSeq ORF: 594 bp
Locus ID: 1827



 UniProt ID:
 P53805

 Cytogenetics:
 21q22.12

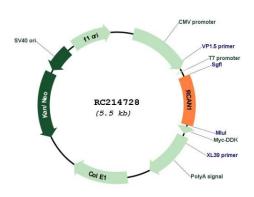
**Protein Families:** Transcription Factors

MW: 22.6 kDa

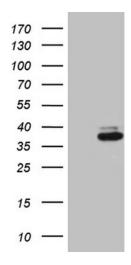
**Gene Summary:** The protein encoded by this gene interacts with calcineurin A and inhibits calcineurin-

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 may lead to neurofibrillary tangles such as those associated with Alzheimer disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]

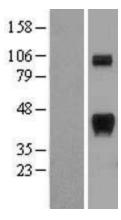
# **Product images:**



Circular map for RC214728



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RCAN1 (Cat# RC214728, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RCAN1 (1:2000) (Cat# [TA810470]). Positive lysates [LY403714] (100ug) and [LC403714] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214728 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).