

## Product datasheet for **RG202391**

### Calcipressin 1 (RCAN1) (NM\_203417) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Calcipressin 1 (RCAN1) (NM\_203417) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Calcipressin 1  
**Synonyms:** ADAPT78; CSP1; DSC1; DSCR1; MCIP1; RCN1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202391 representing NM\_203417  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGAGGTGGACCTGCAGGACCTGCCAGCGCCACCATCGCCTGTCACCTGGACCCGCGGTGTTCCG  
 TGGACGGCTGTCCGGGCCAAATTTGAGTCCCTCTTAGGACGTATGACAAGGACATCACCTTTTCAGTA  
 TTTTAAGAGCTTCAAACGAGTCAGAATAAACTTCAGCAACCCCTCTCCGAGCAGATGCCAGGCTCCAG  
 CTGCATAAGACTGAGTTTCTGGAAAGGAAATGAAGTTATATTTTGCTCAGACCTTACACATAGGAAGCT  
 CACACCTGGCTCCGCAAATCCAGACAAGCAGTTTCTGATCTCCCCTCCGCTCTCCGCCAGTGGGATG  
 GAAACAAGTGGAAGATGCGACCCAGTCATAAACTATGATCTTATATGCCATCTCCAAGCTGGGGCCA  
 GGGGAAAAGTATGAATTGCAGCAGCGACTGACACCCTCCAGCGTGGTGGTCCATGTATGTGAGAGTG  
 ATCAAGAGAAGGAGGAAGAAGAGGAAATGGAAAGAATGAGGAGACCTAAGCCAAAATTATCCAGACCAG  
 GAGGCCGAGTACACGCCGATCCACCTCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202391 representing NM\_203417  
 Red=Cloning site Green=Tags(s)

MEEVDLQDLPSATIACHLDPRVFDGLCRAKFESLFRITYDKDITFYFKSFKRVRINFSNPFSAADARLQ  
 LHKTEFLGKEMKLYFAQTLHIGSSHLAPPNDKQFLISPPASPPVGWKQVEDATPVINYDLLYAIKLG  
 GEKYLHAATDTPSVVHVHVCESDQEKEEEEEEMERMRRPKKIIQTRRPEYTPIHLS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_203417

**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.

**RefSeq:** [NM\\_203417.1](#), [NP\\_981962.1](#)

**RefSeq Size:** 2302 bp

**RefSeq ORF:** 354 bp

**Locus ID:** 1827

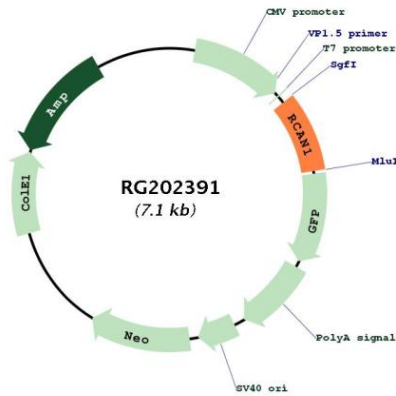
**UniProt ID:** [P53805](#)

**Cytogenetics:** 21q22.12

**Protein Families:** Transcription Factors

**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 RG202391