

Product datasheet for **RC236250**

Calcipressin 1 (RCAN1) (NM_001285389) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calcipressin 1 (RCAN1) (NM_001285389) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RCAN1
Synonyms: ADAPT78; CSP1; DSC1; DSCR1; MCIP1; RCN1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236250 representing NM_001285389
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTATGCCAAATTTGAGTCCCTCTTAGGACGTATGACAAGGACATCACCTTTCAGTATTTAAGA
GCTTCAAACGAGTCAGAATAAACTTCAGCAACCCCTTCCCGCAGCAGATGCCAGGCTCCAGCTGCATAA
GACTGAGTTTCTGGAAAGGAAATGAAGTTATATTTTGCTCAGACCTTACACATAGGAAGCTCACACCTG
GCTCCGCCAAATCCAGACAAGCAGTTTCTGATCTCCCCTCCCGCTCCTCCGCCAGTGGGATGGAAACAAG
TGAAGATGCGACCCAGTCATAAACTATGATCTTATATGCCATCTCCAAGCTGGGGCCAGGGGAAAA
GTATGAATTGCACGCGACTGACACCACTCCAGCGTGGTGGTCCATGTATGTGAGAGTGATCAAGAG
AAGGAGGAAGAAGAGGAAATGGAAAGAATGAGGAGACCTAAGCCAAAAATATCCAGACCAGGAGGCCGG
AGTACACGCCGATCCACCTCAGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236250 representing NM_001285389
Red=Cloning site Green=Tags(s)

MVYAKFESLFRTYDKDITFYFKSFKRVRINFSNPFSAADARLQLHKTEFLGKEMKLYFAQTLHIGSSHL
APPNPKQFLISPPASPPVWGKQVEDATPVINYDLLYAI SKLGPGEKYLHAATDTTPSVVVHVHVESDQE
KEEEEEEMRRPKPKIIQTRRPEYTPIHLS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

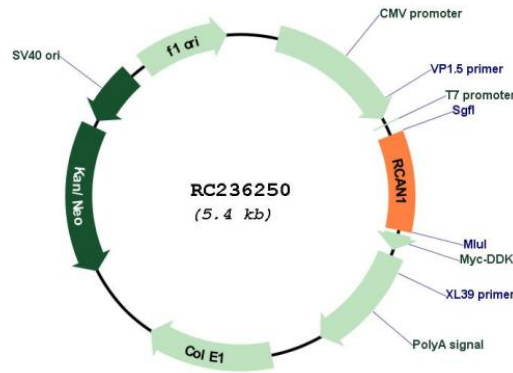
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001285389

ORF Size: 513 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.

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| 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: | <ol style="list-style-type: none">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_001285389.2</u> , <u>NP_001272318.1</u> |
| RefSeq Size: | 2210 bp |
| RefSeq ORF: | 516 bp |
| Locus ID: | 1827 |
| UniProt ID: | <u>P53805</u> |
| Cytogenetics: | 21q22.12 |
| Protein Families: | Transcription Factors |
| MW: | 20.3 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] |