

Product datasheet for **RG235745**

Calcipressin 1 (RCAN1) (NM_001285393) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calcipressin 1 (RCAN1) (NM_001285393) 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: >RG235745 representing NM_001285393.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGAGGTGGACCTGCAGGACCTGCCAGCGCCACCATCGCCTGTCACCTGGACCCGCGGTGTTTC
GTGGACGGCTGTGCCGGCCAAATTTGAGTCCCTCTTTAGGACGTATGACAAGGACATCACCTTTCAG
TATTTTAAAGAGCTTCAAACGAGTCAGAATAAACTTCAGCAACCCCTTCTCCGCAGCAGATGCCAGGCTC
CAGCTGCATAAGACTGAGTTTCTGGAAAGGAAATGAAGTTATATTTTGTCTCAGACCTTACACATAGGA
AGCTCACACCTGGCTCCGCCAAATCCAGACAAGCAGTTTCTGATCTCCCCTCCCGCTCTCCGCCAGTG
GGATGGAAACAAGTGAAGATGCGACCCAGTCATAAACTATGATCTTATATGCCATCTCCAAGCTG
GGCCAGGGGAAAAGTGAATTGCACGCAGCGACTGACACCACTCCAGCGTGGTGGTCCATGTATGT
GAGAGTGATCAAGAGAAGGAGGAAGAAGAGGAAATGGAAAGAATGAGGAGACCTAAGCCAAAATTATC
CAGACCAGGAGCCGGAGTACACGCCGATCCACCTCAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235745
Blue=ORF Red=Cloning site Green=Tag(s)

```
MEEVDLQDLPSATIACHLDPRVFDGLCRAKFESLFRITYDKDITFQYFKSFKRVRFNFSNPFSAADARL
QLHKTEFLGKEMKLYFAQTLHIGSSHLAPPNPKQFLISPPASPPVGVKQVEDATPVINYDLYAISKL
GPGEKYLHAATDTPSVVVHVCESDQEKEEEEEEMERMRRPKPKIIQTRRPEYTPIHLS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

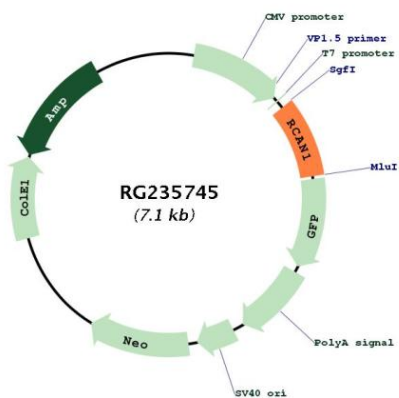
Restriction Sites: SgfI-MluI



Cloning Scheme:


- ACCN:** NM_001285393
- 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).
- RefSeq Size:** 2264 bp
- RefSeq ORF:** 354 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 RG235745