

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: RCAN1
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)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
RCATGGAGGAGGTGGACCTGCAGGACCTGCCAGCGCCACCATCGCCTGTACCTGGACCCGCGCGTGT
TCGTGGACGGCCTGTGCCGGCCAAATTTGAGTCCCTCTTTAGGACGTATGACAAGGACATCACCTTTC
AGTATTTTAAGAGCTTCAAACGAGTCAGAATAAACTTCAGCAACCCCTTCTCCGACGAGATGCCAGGC
TCCAGCTGCATAAGACTGAGTTTCTGGGAAAGGAAATGAAGTTATATTTTGTCTCAGACCTTACACATAG
GAAGCTCACACCTGGCTCCGCCAAATCCAGACAAGCAGTTTCTGATCTCCCTCCCGCCTCTCCGCCAG
TGGGATGGAACAAGTGAAGATGCGACCCAGTCATAAACTATGATCTTATATGCCATCTCCAAGC
TGGGGCCAGGGGAAAAGTATGAATTGCACGCAGCGACTGACACCACTCCAGCGTGGTGGTCCATGTAT
GTGAGAGTGATCAAGAGAAGGAGGAAGAAGAGGAAATGGAAAAGATGAGGAGACCTAAGCCAAAAATTA
TCCAGACCAGGAGGCCGGAGTACACGCCGATCCACCTCAGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

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

```
XWRRWTCRTCPAPPSPVTWRACSWTACAGPNLSPSLGRMTRTSPFSILRASNESE*TSATPSPQQMPGS
SCIRLSFWERK*SYILLRPYT*EAHTWLRQIQTSF*SPLPLRQWDGNKWKMRPQS*TMISYMPSPSWGQK
SMNCTQRLTPLPAWMSMYVRIKRRRKRKWKKE*GDLSQKLSRPGGRSTRSTS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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RefSeq: [NM_001285393.1](#), [NM_001285393.2](#), [NP_001272322.1](#)

RefSeq Size: 2264 bp

RefSeq ORF: 354 bp

Locus ID: 1827

UniProt ID: [P53805](#)

Cytogenetics: 21q22.12

Protein Families: Transcription Factors

MW: 22.8 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]