

Product datasheet for **RG237112**

Calcipressin 1 (RCAN1) (NM_001285391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcipressin 1 (RCAN1) (NM_001285391) 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:	>RG237112 representing NM_001285391. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGCTACCGTCCGCCAGCTCCGCGTTCCTTCGCACGTGCCTCTGCGGGATCCCTCGTGGGAAAGT
CTCAGAAATGTCCTAACTGAAGAAAAGCCGGGGAATGCAAGGAGAGCAAGGTCGTAGGTTGTTCCGA
CTGCTCCTTAACGACCTGCCTGGCAGGGACCGACTACCCTGCTCCTACCCGACGCCCATGTGGAGCAG
GCATCCACCAGTGCCTCCCGCGCTTGCTAGCAGTGAACATTCTGAAGACACTCTCTCTTTATCCT
GAATCCTCGCTCCACTGCAGAGACTGCGCCTTCCATAGGTTCTCAAGGCCAAATTTGAGTCCCTC
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TTTCTGATCTCCCTCCCGCCTCTCCGCCAGTGGGATGGAACAAGTGGGAAAGATGCGACCCAGTCATA
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GACACCACTCCAGCGTGGTGGTCCATGTATGTGAGAGTGATCAAGAGAAGGAGGAAGAAGGAAAATG
GAAAGAATGAGGAGACCTAAGCCAAAATTATCCAGACCAGGAGGCCGGAGTACACGCCGATCCACCTC
AGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



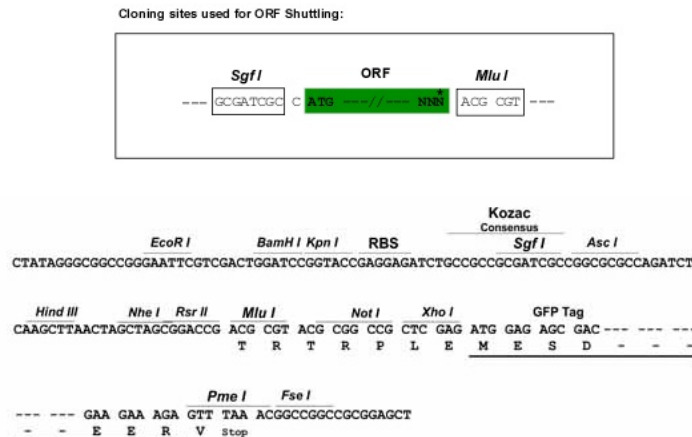
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237112
 Blue=ORF Red=Cloning site Green=Tag(s)

MNSTVRQLRVPSHVPLRDPWSWESLRNVPKLKKSRGMQGEQGRLLFRLLLNDLPGRDRLPCSYPQPHVEQ
 ASTSASPRLAVNIPEDTLLSYPESSLPLQRHCAFHRFSKAKFESLFRTYDKDITFYFKSFKRVRINF
 SNPFSAADARLQLHKTEFLGKEMKLYFAQTLHIGSSHLAPPNPKQFLISPPASPVPVWGWKQVEDATPVI
 NYDLLYAI SKLGPGEKYELHAATDTTPSVVVHVCESDQEKEEEEEEMERMRRPKPKIIQTRRPEYTPIHL
 S
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001285391

ORF Size: 831 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).

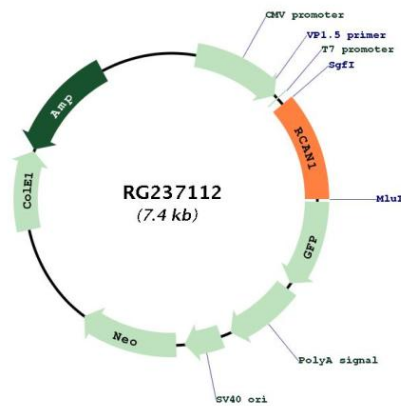
RefSeq: [NM_001285391.2](#), [NP_001272320.2](#)

RefSeq Size: 2533 bp

RefSeq ORF: 834 bp

Locus ID: 1827
UniProt ID: [P53805](#)
Cytogenetics: 21q22.12
Protein Families: Transcription Factors
MW: 32.3 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]

Product images:



Circular map for RG237112