

## Product datasheet for **SC121454**

### Calcipressin 1 (RCAN1) (NM\_203418) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calcipressin 1 (RCAN1) (NM_203418) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcipressin 1
Synonyms:	ADAPT78; CSP1; DSC1; DSCR1; MCIP1; RCN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121454 sequence for NM_203418 edited (data generated by NextGen Sequencing)

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ATGCATTTTAGAACTTTAACTACAGTTTTAGCTCCCTGATTGCCTGTGTGGCAAACAGT
GATATCTTCAGCGAAAGTGAAACCAGGGCCAAATTTGAGTCCCTTTAGGACGTATGAC
AAGGACATCACCTTTAGTATTTAAGAGCTTCAAACGAGTCAGAATAAACTTCAGCAAC
CCCTTCTCCGAGCAGATGCCAGGCTCCAGCTGCATAAGACTGAGTTTCTGGAAAGGAA
ATGAAGTTATATTTGCTCAGACCTTACACATAGGAAGCTCACACCTGGCTCCGCCAAAT
CCAGACAAGCAGTTTCTGATCTCCCTCCCGCTCTCCGCCAGTGGGATGGAAACAAGTG
GAAGATGCGACCCAGTCATAAACTATGATCTTATATGCCATCTCCAAGCTGGGGCCA
GGGGAAAAGTATGAATTGCACGCAGCGACTGACACCACTCCAGCGTGGTGGTCCATGTA
TGTGAGAGTGATCAAGAGAAGGAGGAAGAAGAGGAAATGGAAAGAATGAGGAGACCTAAG
CCAAAAATTATCCAGACCAGGAGCCGGAGTACACGCCGATCCACCTCAGCTGA
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Clone variation with respect to NM\_203418.1



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_203418 unedited NGTTCAAATTTGTATACGACTCATATAGGCGGCCGCAATTCGCCGAGCTCACTAGGGCT TGACTGCGTGGGTCTGTAGCGCTTTCACTGTAAGAAAGCAAGATGCATTTTAGAACTTT AACTACAGTTTTAGTCCCTGATTGCCTGTGTGGCAAACAGTGATATCTTCAGCGAAAGT GAAACCAGGGCCAAATTTGAGTCCCTCTTAGGACGTATGACAAGGACATCACCTTTAG TATTTTAAGAGCTTCAAACGAGTCAGAATAAACTTCAGCAACCCCTTCTCCGCAGCAGAT GCCAGGCTCCAGCTGCATAAAGACTGAGTTTCTGGGAAAGGAAATGAAGTTATATTTTGT CAGACCTTACACATAGGAAGCTCACACCTGGCTCCGCCAAATCCAGACAAGCAGTTTCTG ATCTCCCCCTCCCGCTCTCCGCCAGTGGGATGGAAACAAGTGAAGATGCGACCCAGTC ATAAACTATGATCTTTATATGCCATCTCCAAGCTGGGGCCAGGGGAAAAGTATGAATTG CACGCAGCGACTGACACCACTCCAGCGTGGTGGTCCATGTATGTGAGAGTGATCAAGAG AAGGAGGAAGAAGAGGAAATGGAAAGAATGAGGAGACCTAAGCCAAAAATTATCCAGACC AGGAGGCCGGAGTACACGCCGATCCACCTCAGCTGAACTGGCACGCGACGAGGACGCATT CCAAATCATACTACGGGAGGAATCTTTTACTGTGGNAGGTGGCTGGTCAGACTTCTNT CGGAGTGGCAGCCGAGATCGGNGTGGCAGAAATCCCAGTTCATGTTGCTCAGAGAGAATA AGGCCGTGTCCTGTTCTATGCTGACACCGTTACTGTTTCATGCACCCGGAATGACTTGG CCATCACTGATTNGGTGATCGACAAGACATTTGGACTGTCTGAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_203418
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_203418.1</a> , <a href="#">NP_981963.1</a>
<b>RefSeq Size:</b>	2434 bp
<b>RefSeq ORF:</b>	594 bp
<b>Locus ID:</b>	1827
<b>UniProt ID:</b>	<a href="#">P53805</a>
<b>Cytogenetics:</b>	21q22.12
<b>Protein Families:</b>	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]  
Transcript Variant: This variant (3) uses an alternate 5' exon compared to variant 1. The resulting isoform (c) has a distinct N-terminus compared to isoform a.