

Product datasheet for **SC117406**

Calcipressin 1 (RCAN1) (NM_004414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calcipressin 1 (RCAN1) (NM_004414) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcipressin 1
Synonyms:	ADAPT78; CSP1; DSC1; DSCR1; MCIP1; RCN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_004414 edited
GAATTCGGCACGAGGGCCGGCCGGGCGCGGACCGGAGCGCGTGAGGCTCCGGCGCGCAAG
CCCGGAGCAGCCCGCTGGGGCGCACAGGGTCGCGCGGGCGCGGGGATGGAGGACGGCGTG
GCCGGTCCCAGCTCGGGGCCGCGGGCGGAGGCGGGCGGAGGCGGCCGAGGCGGAGCGCGG
CCCGGGGTGACGCTGCGGCCCTTCGCGCCCTCTCGGGGGCGGCCGAGGCGGACGAGGGC
GGCGGCGACTGGAGCTTCATTGACTGCGAGATGGAGGAGGTGGACCTGCAGGACCTGCC
AGCGCCACCATCGCTGTACCTGGACCCGCGCGTGTTCGTGGACGGCCTGTGCCGGGCC
AAATTTGAGTCCCTCTTTAGGACGTATGACAAGGACATCACCTTTCAAGTATTTAAGAGC
TTCAAACGAGTCAGAATAAACTTCAGCAACCCCTTCTCCGACGAGATGCCAGGCTCCAG
CTGCATAAGACTGAGTTTCTGGAAAGGAAATGAAGTTATATTTTCTCAGACCTTACAC
ATAGGAAGCTCACACCTGGCTCCGCCAAATCCAGACAAGCAGTTTCTGATCTCCCCTCC
GCCTCTCCGCCAGTGGGATGAAACAAGTGAAGATGCGACCCAGTCATAAACTATGAT
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GACACCACTCCCAGCGTGGTGGTCCATGTATGTGAGAGTGATCAAGAGAAGGAGGAAGAA
GAGGAAATGAAAGAATGAGGAGACCTAAGCCAAAAATTATCCAGACCAGGAGCCGGAG
TACACGCCGATCCACCTCAGCTGAAGTGGCAGCGACGAGGACGATTCCAAATCATACT
CACGGGAGGAATCTTTACTGTGGAGGTGGCTGGTCCAGACTTCTCGGAGGTGGCAGCC
GAGATCGGGGTGGCAGAAATCCCAGTTCATGTTGCTCAGAAGAGAATCAAGGCCGTGTCC
CCTTGTCTAATGCTGCACACCACTTACTGTTTATGGCACCCGGGAATGACTTGGGCCAA
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GATAGTGTTTTACTTGTCTTTTCTGGTAGGTTCTGTCTGTGCCAAGGGCAGGTTGAT
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GCAATGTGAAATTTGAGCGTTTCTTTTCTCCCTCATGTTCTCATGTTTGTGCATGTAT
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ATTCATACCTGTTGTACACTTGGGTGAAAAGTATGGCAGTGGGAGACTAAGATGTATTA
CCTACCTGTGAATCATATGTTGTAGGAAAAGCTGTTCCCATGTCTAACAGGACTTGAATT
CAAAGCATGTCAAGTGGATAGTAGATCTGTGGCGATATGAGAGGGATGCAGTGCCTTTCC
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AATGTGTATGTCTGGTAAATAGGATTATATTTTGGCCTTACAATACCGTAACAATGTTT
GTCATTTTGAATACTTAATGCCAAGTAACAATGCATGCTTTGAAATTTGGAAGATGGT
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TTGATTGAACGTTCTCAAACCCTGTTTACGGTACTTGGTAAGAGGGAGCCGGTTTGGGAG
AGACCATTGCATCGCTGTCCAAGTGTTCCTTGTAAAGTGTCTTTAACTGGAGAGGCTAA
CCTCAAAATATTTTTTTAACTGCATTCTATAATAAATGGGCACAGTATGCTCCTTACAG
AAAAAAAAAAAAAAAAAACTCGAC
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004414 unedited
 TGTATACGACTCACTATAGGCGGCCGNAATTCGCACGAGGGCCGGCCGGGCGCGGACC
 GGAGCGGTGAGGCTCCGGCGCGCAAGCCCGGAGCAGCCCGCTGGGGCGCACAGGGTCGC
 GCGGGCGCGGGATGGAGGACGGCGTGGCCGTCCCCAGCTCGGGGCCGCGGGGAGGCG
 GCGGAGGCGGCCGAGGCGGAGCGCGGCCGGGTGACGCTGCGGCCCTTCGCGCCCTC
 TCGGGGGCGGCCGAGGCGGACGAGGGCGCGGCGGACTGGAGCTTATTGACTGCGAGATG
 GAGGAGGTGGACCTGCAGGACCTGCCAGCGCCACCATCGCCTGTACCTGGACCCGCGC
 GTTTCGTGGACGCCTGTGCCGGCCAAATTTGAGTCCCTCTTAGGAGGTATGACAAG
 GACATCACCTTTCAGTATTTAAGAGCTTCAAACGAGTCAGAATAAACTTCAAGCAACCC
 TTCTCCGACGAGATGCCAGGCTCCAGCTGCATAAGACTGAGTTTCTGGGAAAGGAAATG
 AAGTTATATTTGCTCAGACCTTACACATAGGAAGCTCACACCTGGCTCCGCCAAATCCA
 GACAAGCAGTTTCTGATCTCCCCTCCGCTCTCCGCCAGTGGGATGGAAACAAGTGAA
 GATGCGACCCAGTCATAAACTATGATCTTTATATGCCATCTCCAAGCTGGGGCCAGGG
 GAAAAGTATGAATTGCACGCAGCGACTGACACCACTCCCAGCGGGTGGTCCATTGTTGTG
 AGAGTGATCAANAAAGGAAGGAAAAGAGAAATGAAAAGATGAGGAGACCTAGCCAAAAT
 ATCCAGACCAGAGCCGGAGTACCGCCATCCACCTANCTGACTGCACGCGACAGGACGCA
 TCAATATACTACGGGAGGATTTTCTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004414 unedited
 NNNTTTTTGTCTGCACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTC
 TGTAAGGAGCATACTGTGCCATTTATTATAGAATGCAGTAAAAAAAATTTGAGGTT
 AGCCTCTCCAGTTTAAAAGCACTTAACAAGAAACACTTGGACAGCGATGCACTGGTCTCT
 CCCAAACCGGCTCCCTTACCAAGTACCGTAAACAGGGTTTGAACGTTCAATCAATT
 TCTTGATATGAACAATCAAAGCATTAAATGCAAACATATTTGCTTCTCAAAGAATAAAAC
 CATCTTCAAATTTCAAAGCATGCATTGTTACTTGGCATTAAAGTATTTCAAATGACAA
 ACATTGTTACGGTATTGTAAGGCCAAAATAAATACCTATTTACCAGACATACACATTAC
 AACTAGAAAAAATTACAAATGTTAACCTAGTATAACAATCCATCAGGAATGAATGGGG
 AAAGGCACTGCATCCCTCTCATATCGCCACAGATCTACTATCCACTTGACATGCTTTGAA
 TTCAAGTCTGTAGACATGGGAACAGCTTTTCTACAACATATGATTCACAGGTAGGTT
 AATACATCTTAGTCTCCACTGCCATACTTTTACCCAAGTGTACAACAGGTATGAATAT
 ATGCTATCAGCTTTATTTACAAGTGTATCTTGATGTCTTCGTGGGTAAAAAACCACTA
 TCTCAACCAACAGTTTCAAAAAAGTTTTGGCTATGATTCATGTATANGAACCCCCCA
 TAAAAGAAACACCAGAAGTGGGTCGATCCCAACACCTAAACTAAATTTTACCACTG
 AAAGTCGACGTGAAACTGCTATTCTCTGAATTGTATAGCTAAATTTACAGAGGATC

Restriction Sites:

NotI-NotI

ACCN:

NM_004414

Insert Size:

2550 bp

OTI Disclaimer:

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).

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:	NM_004414.5 , NP_004405.3
RefSeq Size:	2457 bp
RefSeq ORF:	759 bp
Locus ID:	1827
UniProt ID:	P53805
Cytogenetics:	21q22.12
Domains:	Calcipressin
Protein Families:	Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>