

## **Product datasheet for RC218434**

## NCALD (NM 001040629) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: NCALD (NM\_001040629) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:NCALD

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC218434 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGGAAACAGAACAGCAAGCTGCGCCCGGAGGTCATGCAGGACTTGCTGGAAAGCACAGACTTTACAG AGCATGAGATCCAGGAATGGTATAAAGGCTTCTTGAGAGAACTGCCCCAGTGGACATTTGTCAATGGAAGA GTTTAAGAAAAATATATGGGAACTTTTTCCCTTATGGGGATGCTTCCAAATTTGCAGAGCATGTCTTCCGC ACCTTCGATGCAAATGGGACAATAGGACTTTAGAGAATTCATCATCGCCTTGAGTGTAACTTCGA GGGGGAAGCTGGAGCAGAAGCTGAAATGGGCCTTCAGCATGTACGACCTGGACGGAAATGGCTATATCAG CAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTCTGTAATGAAAATGCCTGAA GATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAGATGGACACCCAATAGAGACGGAAAAC TCTCCATGGAAGAGTTCATCCGAGGGAGCCAAAAGCGACCCGTCCATTGTGCGCCTCCTGCAGTGCGACCC

GAGCAGTGCCGGCCAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218434 protein sequence

Red=Cloning site Green=Tags(s)

MGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGFLRDCPSGHLSMEEFKKIYGNFFPYGDASKFAEHVFR TFDANGDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLDGNGYISKAEMLEIVQAIYKMVSSVMKMPE

DESTPEKRTEKIFRQMDTNRDGKLSMEEFIRGAKSDPSIVRLLQCDPSSAGQF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6320">https://cdn.origene.com/chromatograms/mk6320</a> g08.zip



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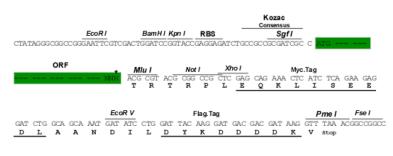
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**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001040629

ORF Size: 579 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).

**Reconstitution Method:** 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: <u>NM 001040629.1, NP 001035719.1</u>

RefSeq Size: 3642 bp
RefSeq ORF: 582 bp
Locus ID: 83988
UniProt ID: P61601



Cytogenetics: 8q22.3

MW: 22.3 kDa

**Gene Summary:** This gene encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding

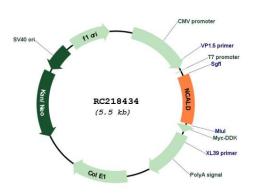
proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated

intracellular calcium levels induce a conformational change that exposes the myristoyl group,

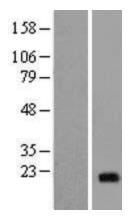
resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been

determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

## **Product images:**

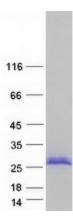


Circular map for RC218434



Western blot validation of overexpression lysate (Cat# [LY421783]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC221428] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified NCALD protein (Cat# [TP318434]). The protein was produced from HEK293T cells transfected with NCALD cDNA clone (Cat# RC218434) using MegaTran 2.0 (Cat# [TT210002]).