

NCALD cDNA

Catalog Number: ATGD0224

PRODUCT INFORMATION

Catalog number

ATGD0224

Product type

cDNA

Species

Human

NCBI Accession No.

NP_001035720.1

Alternative Names**mRNA Refseq**

NM_001040630.1

OMIM

606722

Chromosome location

8q22.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

582bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

NCALD encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein

NCALD cDNA

Catalog Number: ATGD0224

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.

DATA

Sequence nucleotides

```
ATGGGGAAACAGAACAGCAAGCTGCGCCCGGAGGTCATGCAGGACTTGCTGGAAAGCACAGACTTTACAGAGCATGAGAT
CCAGGAATGGTATAAAGGCTTCTTGAGAGACTGCCCCAGTGGACATTTGTCAATGGAAGAGTTTAAGAAAATATATGGGAAAC
TTTTCCCTTATGGGGATGCTTCCAAATTTGCAGAGCATGTCTTCCGCACCTTCGATGCAAATGGAGATGGGACAATAGACT
TTAGAGAATTCATCATCGCCTTGAGTGTAACTTCGAGGGGGAAGCTGGAGCAGAAGCTGAAATGGGCCTTCAGCATGTACG
ACCTGGACGGAAATGGCTATATCAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTTCTCTGTAAT
GAAAATGCCTGAAGATGAGTCAACCCCGAGAGAAAAGAAGCAGAAAAGATCTCCGCCAGATGGACACCAATAGAGACGGAAA
ACTCTCCCTGGAAGAGTTCATCCGAGGAGCCAAAAGCGACCCGTCCATTGTGCGCCTCTGCAGTGCAGCCCGAGCAGTGC
CGGCCAGTTCTGA
```

Transaction Sequence

```
MGKQNSKLRP EVMQDLLEST DFTEHEIQEW YKGFRLDCPS GHLSMEEFKK IYGNFFPYGD ASKFAEHVFR TFDANGDGTI
DFREFIIALS VTSRGKLEQK LKWAFSMYDL DGNGYISKAE MLEIVQAIYK MVSSVMKMPE DESTPEKRTE KIFRQMDTNR
DGKLSLEEFI RGAKSDPSIV RLLQCDPSSA GQF
```