

Product datasheet for **RR209508**

Cald1 (NM_013146) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cald1 (NM_013146) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cald1
Synonyms:	I-Cad
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR209508 representing NM_013146
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTTAGCAGATCCGGGTCCAGGAAGCGCTGCCTGGCCACACTCTCTCAAATTGCCTATCAGAGGA
 ATGATGATGACGAAGAAGAGGCTGCCAGGAACCGCGCCGCCAGCCGACAGGAAAGGCTGCGGCAGAA
 GCAAGAGGAAGAATCCTTGGGACAGGTGACAGACCAAGTGGAGGCCCATGTCCAGAACAGTGCCCCCGAT
 GAAGAGTCTAAGCCAGCCACTGCAAATGCTCAGGTAGAAGGTGATGAGGAGGCTGCTTTGCTGGAGCGCC
 TGGCCAGGCGAGAAGAGAGAGCTCAAAAACGCCTTCAGGAAGCCTTAGAGCGTCAGAAGGAGTTTGTATCC
 AACATAACCGATGGCAGTCTCTCAGTCCCAAGCAGAAGGATGCAAAAATAACTCGGCTGAAAATGAGACA
 GCAGAGGGGAAGAAAAAGGAGAGAGTCGCTCAGGACGGTATGAGATGGAAGAAACAGAAGTGGTCATCA
 CGTCCTACCAGAAGAACAGCTATCAGGATGCTGAAGACAAAAAGAAAGAAAAGGAGGAGGAGGAGGA
 GGAAGAGAAGCTGAAGGGAGGAACTTGGCGAAAATCAGATCAAAGATGAGAAGATTAAGGACAAA
 GAGCCCAAAGAAGATCAAGAACTTCTGGATCGAAAGAAAGGATTTACAGAAGTGAAGGCGCAGAATG
 GAGAATTCATGACCCACAACTTAACAACTGAGAATGCTTTCAGCCCCAGCCGTTTCAGGAGGCCGGGC
 CAGCGGGGACAAGGAAGCTGAAGGCGCCCCACAAGTGAAGCCGGTAAGAGGCTGGAGGAGCTGCCCGA
 CGCCGTGGGGAGACAGAGAGCGAAGAGTTGAAAAACTCAAACAAAAGCAACAGGAGGCAGCCTTGGAGC
 TGAAGAGCTGAAGAAAAAGAGGGAAGAGAGAAGGAAGGTTCTGGAGGAAGAGGAGCAGAGAAGGAAGCA
 GGAGGAGGCTGATCGAAAAGCTAGAGAGGAGGAAGAGAAGAGGAGGTTGAAGGAAGATCGAAAGGAGA
 AGGGCAGAAGCTGCTGAGAAACGCCAGAAGATGCCGGAAGATGGCCTATCTGAGGACAAGAAGCCGTTCA
 AGTGCTTCACTCCTAAAGGCTCATCTCTCAAGATAGAGGAGCGAGCAGAGTTTTTGAATAAGTCTGTGCA
 GAAAAGTGGTGTCAAATCAACTCATCAAGCAGCTGTGGTCTCAAGATTGACAGCCGGCTGGAGCAATAT
 ACCAATGCAATCGAGGGAACAAAAGCTTCAAACTATGAAGCCTGCAGCATCCGATCTTCTGTCCCTG
 CGGAAGGTGTCCGCAATATCAAGAGCATGTGGGAGAAAGGAGTGTGTTTTATCCCCCTCTGCCTCGGG
 GACACCAATAAGGAACTGCTGGCCTGAAGGTGGGGTTTCCAGCCGCATCAATGAATGGCTAACTAAA
 TCGCCGGACGGCAACAAGTCACCCGCTCCAAGCCTTCTGACTTAAGGCCAGGAGATGTATCTGGCAAGC
 GGAACCTCTGGGAAAAGCAATCCGTGGATAAGGTCACTTCTCCACTAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209508 representing NM_013146
 Red=Cloning site Green=Tags(s)

MLSRSGSGRRCLATLSQIAYQRNDDDEEEAARERRRRARQERLRQKQEEESLQVTDQVEAHVQNSAPD
 EESKPATANAQVEGDEEAALLERLARREERRQKRLQEALERQKEFDPTITDGLSVPSSRRMQNNSAENET
 AEGEEKGESRSGRYEMEETE VVITSYQKNSYQDAEDKKKEEKEEEEEKLGKGNLGENQIKDEKIKKDK
 EPKKEEVKNFLDRKKGFTEVKAQNGEFMTHLQKQENAFSPSRSGGRASGDKEAEGAPQVEAGRLEELRR
 RRGETESEEFELKQKQQAALAELEELKKREERRKVL EEEEEQRRKQEEADRKAREEEEEKRRLEEEIERR
 RAEAAEKRQKMPEDGLSEDKPKFCFTPKGSSLKEERAFLNKSQKSGVKSTHQAAVSKIDSRLEQY
 TNAIEGTKASKPMKPAASDLVPAEGVRNIKSMWEKGSVFSPPSASGTPNKETAGLKVGVSSRINWLT
 SPDGNKSPAPKPSDLRPGDVSGKRNLWEKQSVDKVTSPTKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013146

ORF Size: 1593 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: [NM_013146.2](#), [NP_037278.1](#)

RefSeq Size: 2848 bp

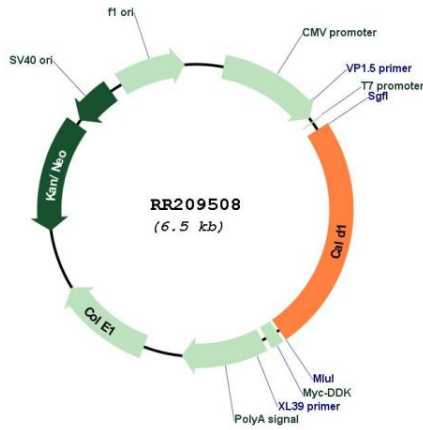
RefSeq ORF: 1596 bp

Locus ID: 25687

UniProt ID: [Q62736](#)

Cytogenetics: 4q22
MW: 60.6 kDa
Gene Summary: actin binding protein that may be involved in regulation of uterine contractions during pregnancy and labor [RGD, Feb 2006]

Product images:



Circular map for RR209508