

Product datasheet for MR224345

Cabp1 (NM_013879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cabp1 (NM_013879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cabp1
Synonyms:	caldendrin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224345 representing NM_013879 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAACTGCGTCAAGTCGCCACTAAGAACTCTCAAGAAAGATGCGCCAGGAGGAGAAGACCAGCT
ACATGGCGGTGCAGACAAGCGAGGACGGGCTGGCGGATGGCGGCAGCTCCATGGACCACTCATGATGCT
GGCCAGAACTGTGCGGTATGCACAACCTGCTGGTCCCCTGCATTTTCTCCGAAAGGTTTTGCT
GAGAACAGACAACCTGACAGATCGTTACGACCAGAGGAGATTGAAGAGCTCCGAGAGGCCTCCGAGAAT
TTGACAAAGACAAGGATGTTACATCAACTGCCGGACCTGGGAACTGCATGCGCACCATGGGCTACAT
GCCACCAGAGATGGAGCTCATTGAGCTGTCTCAGCAGATCAACATGAACCTGGGTGGCCACGTGGATTTT
GATGACTTTGTGGAAGTATGGGCTAACTCCTGGCGGAGACGGCAGATATGATTGGTGTAAAGGAGC
TGAGAGACGCCTTTGGGAGTTTGATACCAACGGTGACGGGGAGATAAGTACGAGCGAGCTTCGAGAGGC
CATGAGGAAGCTCCTGGGTATCAGGTGGGACACCGGGACATAGAGGAAATTATCCGAGACGTGGACCTC
AATGGAGATGGACGAGTGGACTTTGAAGAGTTTGTCCGGATGATGTCTCGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224345 representing NM_013879
Red=Cloning site Green=Tags(s)

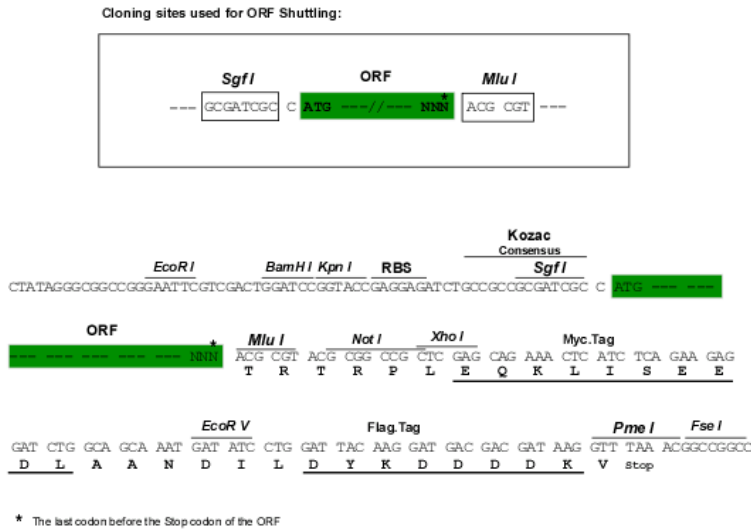
MGNCVKSPRLNLSRKMREQEKT SYMAVQTS EDGLADGGELHGPLMMLAQNCAMVHNLLGPACIFLRKGFA
 ENRQPDRSLRPEEIEELREAFREFDKDKDGYINCRDLGNCMRMTGYMPTEMELIELSQQINMNLGGHVDF
 DDFVELMGPKLLAETADMIGVKELRDAFREFDNNGDGEISTSELREAMRKLGHQVGHDRDIEEIIIRDVDL
 NGDGRVDFEEFVRMMSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9059_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013879

ORF Size: 681 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_013879.2](#), [NP_038907.1](#)

RefSeq Size: 1181 bp

RefSeq ORF: 684 bp

Locus ID: 29867

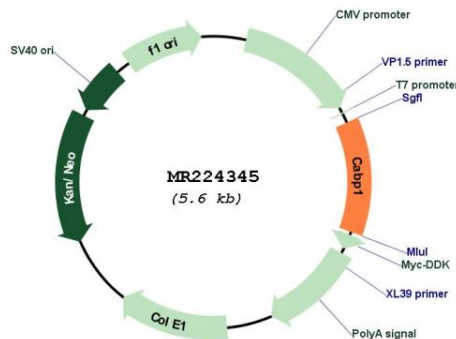
UniProt ID: [Q9JLK7](#)

Cytogenetics: 5 F

MW: 25.9 kDa

Gene Summary: Modulates calcium-dependent activity of inositol 1,4,5-triphosphate receptors (ITPRs). Inhibits agonist-induced intracellular calcium signaling. Enhances inactivation and does not support calcium-dependent facilitation of voltage-dependent P/Q-type calcium channels (By similarity). Causes calcium-dependent facilitation and inhibits inactivation of L-type calcium channels by binding to the same sites as calmodulin in the C-terminal domain of CACNA1C, but has an opposite effect on channel function. Suppresses the calcium-dependent inactivation of CACNA1D (PubMed:17050707, PubMed:17947313). Inhibits TRPC5 channels. Prevents NMDA receptor-induced cellular degeneration (By similarity). Required for the normal transfer of light signals through the retina (PubMed:27822497).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224345