

Product datasheet for **RC223152**

CAPS1 (CADPS) (NM_183394) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CAPS1 (CADPS) (NM_183394) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CADPS
Synonyms: CADPS1; CAPS; CAPS1; UNC-31
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC223152 representing NM_183394
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGGACCCTTCGTCCAGCGAAGAAGAATCGGATGAGATCGTGGAGGAGGAGAGCGGCAAGGAGGTGC
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Protein Sequence: >RC223152 representing NM_183394
Red=Cloning site Green=Tags(s)

MLDPSSEEESEIVEEEESGKEVLGSAPSGARLSPSRTSEGSAGSAGLGGGGAGAGAGVGGAGGGGGSGAS
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 KHLQDLFAPLVVRYVDLMESSIAQSIHRGFERESWEPVNNNGSGTSEDLFWKLDALQTFIRDHLWPEEFG
 KHLEQRLKLMASDMIESCVRTRIAFEVKLQKTSRSTDFRVPQSICTMFMNVDAKAQSTKLCSMEMGQE
 HQYHSKIDELIEETVKEMITLLVAKFVTILEGLAKLSRYDEGTLFSSFLSFTVKAASKYVDVPPKGM
 ADAYVTFVRHSQDVL RDKVNEEMYIERLFDQWYNSMNVICTWL TDRMDLQLHIYQLKTL IRMVKKTYR
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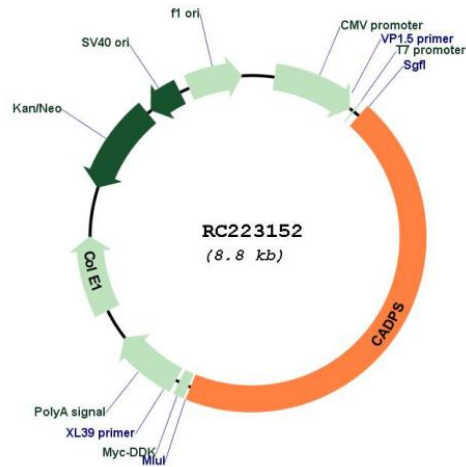
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_183394

ORF Size: 3942 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_183394.3](#)

RefSeq Size: 5365 bp

RefSeq ORF: 3945 bp

Locus ID: 8618

UniProt ID: [Q9ULU8](#)

Cytogenetics: 3p14.2

MW: 148.8 kDa

Gene Summary: This gene encodes a novel neural/endocrine-specific cytosolic and peripheral membrane protein required for the Ca²⁺-regulated exocytosis of secretory vesicles. The protein acts at a stage in exocytosis that follows ATP-dependent priming, which involves the essential synthesis of phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P₂). Alternative splicing has been observed at this locus and three variants, encoding distinct isoforms, are described. [provided by RefSeq, Aug 2008]