

Product datasheet for **SC117788**

CAPS1 (CADPS) (NM_003716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPS1 (CADPS) (NM_003716) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPS1
Synonyms:	CADPS1; CAPS; CAPS1; UNC-31
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_003716, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGACCCTTCGTCCAGCGAAGAAGAATCGGATGAGATCGTGGAGGAGGAGAGCGGCAAGGAGGTGC
TCGGCTCGGCCCGTCCGGCGCGCCTGTCTCCAGCCGTACCAGCGAGGGCTCGGCCGCGAGCCGG
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GAGATGGAAGAAAAGGTTTTTTGTATTGGTGCAGGTCAGTCAGTACACGTTTGCCATGTGCAGTTATCGG
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 AG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003716 unedited
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 TCGCGCTTCTGGGTCTGAGCCCAGCTCGCGACCGCCGGGAGAGGATCAGTCGCGCGGC
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 CTGATCCCCGGCTGCCTCCAGCGCCCCACCTTTTGCCTCAAGCCGGGGGCTCCAGA
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003716 unedited
TACTATGGACGCGCCGCAATCTAGGATCGGTTTTTTTTTTTTTTTTTTTTTTTATTCTTA
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GGCGTTTATATAAGGCAAAAGCAAGATGGATCCACTACTTTACATGGGAAAGAAATAGCT
CTGCAGCAAACCCAGGGTTGTGCAGTTACAGATCAAAATGCAATGTACATGACAGATAT
AAAAACAGTGTGGAACAAAATAATTTAAATTATGGTTACAATCTACTGAAGAAATATC
CACATCTTATTATAAACACATTTTTAGTCTAGGGTTGTAATTTAAATATTCGTTTTTTTT
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GACAGTAGTTTTGAACTGCGCGCTTGATGTTAAGTCATGATAGGATCGCCCCCTTGCCGT
GGCAATTAAGAGAATCAATCCATTGGTATGTAGCCATCCTTTTTTTTTTGGCTAATTATA
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CGATTGACAACAAGGGATACGAGAGTGCATGAATGGAACGACATTTATCCTTTGTGCGGAG
AACGGGGGCGGGTCTGTTGAGTGAAGTCTACAGAGAAAGATTAAAAGAAAC
GTGGCCCCAAATAGTAGTGAGACATAAGAGCACAGAGCGGGGAAACGAAAGGCATACA
AAG

Restriction Sites:

NotI-NotI

ACCN:

NM_003716

Insert Size:

5200 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003716.2](#), [NP_003707.2](#)

RefSeq Size: 5482 bp

RefSeq ORF: 4062 bp

Locus ID: 8618

UniProt ID: [Q9ULU8](#)

Cytogenetics: 3p14.2

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.