

## Product datasheet for SC124852

### CAPS1 (CADPS) (NM\_183394) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CAPS1 (CADPS) (NM_183394) 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:	>OriGene ORF within SC124852 sequence for NM_183394 edited (data generated by NextGen Sequencing)

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ATGCTGGACCCTTCGTCCAGCGAAGAAGAATCGGATGAGATCGTGGAGGAGGAGAGCGGC
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ATCAGCATGAAGGACAGCGATGAGGAAGACGAAGAAGACGATTAG

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Clone variation with respect to NM\_183394.2  
 2652 a=>g

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_183394 unedited</p> <p>TCACTATAGGGCGGCCGGAATTCGCACGAGGCTCCTTCAGCAGCCGAGATGGCATCCG  GCTGCGGGCTCGGGGCTCGCAATTGATTCTCCCTTGCCACCTCGAGTCCACGGACGC  ACCTCTCCCTTCCCTCTCCCTTCGCGCTTCTGGGTCTGAGCCCAGCTCGCGACCGCCG  GGCAGAGGATCAGTCGCGGGCGCCGAGGCTGAGCAGCAGCGCTCTCGTCCCTGACCTGG  GGAGAAGCGCCACCCGGGAGAGCTGATCCCGGCTGCCTCCAGCGCCCCCACCCTTTTG  CACTCCAAGCCGGGGCTCCAGAGACCCCGCTCCCAGGGCCACTATGCTGGACCCTTC  GTCCAGCGAAGAAGAATCGGATGAGATCGTGGAGGAGGAGAGCGCAAGGAGGTGCTCGG  CTCGGCCCGTCCGGCGCGCCTGTCTCCAGCCGTACCAGCGAGGGCTCGGCCGGCAG  CGCCGGGCTGGGGGGCGGCGCGCCGGCGCCGAGCCGGGGTGGGTGCAGGCGGCGGCGG  GGGCGAGCGGCGGAGCAGCGGCGCGGGCCGGGGGGCTGCAACCCAGCAGCCGCGCTGG  CGGCGGCCGGCCCTCCAGCCCCAGCCCGTCGGTGGTGAAGGAGAAGGAAGAGTT  GGAGCGGCTGCCTAAAGAGGAGGAGGAGACGAAAAATAGCTGCAGCTGTATGTGTTCTG  ATGCGTGCATCGCTACCCCTTATGGCCAACCCACCGACATGGCTCCGCCGGCA  GCAAAAGACCAGCAAACAGCAGTTGCATAACAGCCAAGGACCGGTTACAGCCTTCTCC  TGGGGAAACCC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_183394 unedited</p> <p>CTTGGNGATGGCACCTNTCCAGGCCAGGNANAGCACTGGGNNAGGGTACAGGNATG  CCACCCGGATCTGTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTT  TTTTTTTTTTTTTCTTAGGACATCTGAATATTTATTGAGAAGCCACAGTTTTCCACACT  TCCATAACTGTAGGCTTTATATAAGGCAAAAGCAAGATGGATCCACTACTTTACATGGAA  AGAAATAGCTCTGCAGCAAACCCAGGGTTGTGCAGTTACAGATCAAAATGCAATGTACA  TGACAGATATAAAAAACAGTGTGGAACAAAATAATTTAAATTATGGTTACAATCTACTGA  AGGAAATATCCACATCTTATTATAAACACATTTTTAGTCTAGGGTTGTAATTTAAATATT  CGTTTTTTTTACATACACAGTTGAGACGTAAAAGCAAAATAACATTTAAGAGGAGAAAAAC  TTTGACAGAAGACAGTAGTTTTGAACTGCGCGCTTGATGTTAAGTCATGATAGGATCGCC  CCCTTGCCGTGGCAATTAAGAGAATCAATCCATTGGTATGTAGCCATCCTTTTTTTTTTG  GCTAATTATATGAGTAAATGAAAGGATGGGTTAAACAACGACACAAGGGTTTCAATTTGTG  GTTTTAGGGGAACAAAAAGCCATCGAAAGTTAAGTGGTGGGAAACCTGGGTTGTGCTTG  CCCGGGGGTGCCTAACAAACCCCGGGCCAAAAACACGCGACTGAAATGTGGTGGACGG  GCGGCCGCAATAGAACGGCGAGGGCACACGGGACGGGAGNCACAGGGGNCACCGGAGGG  GGCATTGCCGCGACGGCACCGGTGAGCGACGAAGAAACAA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_183394
<b>Insert Size:</b>	4500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_183394.1](#), [NP\\_899631.1](#)

**RefSeq Size:** 5372 bp

**RefSeq ORF:** 3945 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 Ca<sup>2+</sup>-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)P<sub>2</sub>). 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 (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than, and contains internal differences, compared to 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.