

Product datasheet for **SC126876**

CAPS1 (CADPS) (AK000873) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPS1 (CADPS) (AK000873) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPS1
Synonyms:	CADPS1; CAPS; CAPS1; UNC-31
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK000873, the custom clone sequence may differ by one or more nucleotides

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TACTAAATGATGTTTATTTCACTATATCCCATGTGCTCTGACTCTGAGACTTCAAGGTTTGAAGGGGGCT
AAACATGAAATACAAGTTCCCTGGAATTCAGACTGGTTGAATCCAAGCAGTTTCACTGGCCAAGAAAAC
CTTTATGTTTTGGCCGGGCACAGTGGTTCACGCCTGTAATGCCAGCACTTTGGAAGGCTGAGGCGGGCGG
ATCTCCTGAGGTAAGGAGTTTGGGACCATCCTGGCCAGCAAGGTGAAACTCTGTCTCTACTAAAAATACA
AAAATCAGCCCGGCGTGGTGGCGGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGGATCAC
TTGAACCCAGGAGGCAGAGGTTGCACTGAGCTGAGATCGCACCCTGCCCTCCAGCCTGGGCAACAGAAT
AAATGAGACTCCGTCTCCAAAAAACAAGAAAAAGAAAGAAAGAAAGAAACCTCTTTATGTTTT
AAATATTACTGTTTTCCAAAGGAAAAAGTTTGTAAATTTTGGAAACATAATGACATTGTCAAACCTCATG
AACTCAGCTCTAAAAAGAAGGCAACATAAGCCAGGTTTCAAGTTCTTCTGAGCTGGGTAACAAACATAAC
ACTTTTCACTTTAAGAGAACTAAAAACAAGAAAAACAATTAAGTACATTGTTTCACTTTAAGTATAAAAA
TTTCAATTGTAAACACAGTAGCACAACCTATCACAACCCATTCAATAATCTACTCTAACACCCTTTTA
AGAATTATTATTCTGACTAATGGCCAGGCATATCCAATTTTTCTTTCTATCTCTCCCTGGACAACCT
TGAAGCAGACATTTGAATCTGCATTTTCAAAATGAACGTTCCAACATACGCGAGCCTGCAATGAAAAATT
ACGCTGTAGCATTTAATAACTAATCTAAAAACAAATGTAAACAGCAATCAATATTAACCTTCTGTAAATC
TTCCCACTTCAGGTAGCATAATTACAATCTAGAGAGTGGTATAGTACATTTATGCTGTCTTTAAAGAACA
TGTGTACAAAATGTCATAAATTTGATATGGGCTGTATAGACTTAATATAGCTTCATATGCAAAATTTGA
AGCTGGAGCACTGCTTTTTTCTAATATATATTATAATAATGGTGATAATAATAAAATGGCTTTATGGTTT
GCTCACTACTAATTACATGGCACTTAACATTTGCATGAATTTTTTTAAAAAACTGATACTATTCTCAA
TTTCTTATCCACTAGTTCTAATGGCCATAAAAGTAGCCTGCCACTTTGCTGAATTTTAAACACAACTCT
TGTAACAGAAAAATGTAGGCCGTTAATCACTCCTGCCAAAAAGCTTGAAGATACAATACGCTCTTGCTG
AACTAGTCATTGAAGTTCTTCAGCAAAATGAGGAGCACCACGAGAGGCCTTTGCGTGGTGGTCAGATTT
AATGGTGGAGCATGCGGAGACGTTCTGTCACTCTTTCAGTAGACATGGATGCAGCCTTAGAGGTGCAA
CCTCCAGACACATGGGACAGTTTCCACTATTTCACTGCTGAATGATTTTCTCCGTAAGTACTGATAAAT
TGTGCAATGGAATTTTCAAAACACCTGCAAGACCTGTTTGGCCCACTTGTGTTAGATATGTGGATCT
GATGGAGTCTCAATTGCACAATCCATTACAGGGGCTTTGAGCGGGAGTCATGGGAACCACTCAATAAT
GGGTCAAGCACCTCAGAAGATCTGTTTTGAAACTTGACGCCCTTCAGACCTTCATTGGGACCTGCACT
GGCCTGAAGAAGAGTTTGGAAAGCACCTGGAACAACGGCTGAAGTTGATGGCAAGTGACATGATCGAATC
TTGTGTCAAAAGAACCAGGATTGCATTTGAAGTTAAGCTGCAAAAAACCACTCGATCAACAGATTTTCGA
GTCCACAGTCAATATGCACCATGTTTAAATGTTATGGTTGATGCCAAAGCTCAATCAACAAAACCTGCA
GCATGGAAATGGGCAAGAGGT
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5' Read Nucleotide Sequence:	>OriGene 5' read for AK000873 unedited TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGTTCTTCAGCAAAATGAGGAG CACACGCANAGGCCCTTTGCGTGGTGGTCAGATTTAATGGTGGAGCATGCGGAGACGTTT CTGTCACTCTTTGCAGTAGACATGGATGCAGCCTTAGAGGTGCAACCTCCAGACACATGG GACAGTTTTCCACTATTTTCAGCTGCTGAATGATTTTCTCCGTAAGTACTATAATTTGTGC AATGGAAAATTTACAAACACCTGCAAGACCTGTTTGGCCCACTTGTGTTAGATATGTG GATCTGATGGAGTCCTCAATTGCACAATCCATTACAGGGGCTTTGAGCGGGAGTCATGG GAACCACTCAATAATGGGTGAGGCACCTCANAAGATCTGTTTTGAAACTTGACGCCCTT CAGACCTTCATTGCGGACCTGCACTGGCTGAAGAAGAGTTTGGAAAGCACCTGGAACAA CGGCTGAAGTTGATGGCAAGTGACATGATCGAATCTTGTGTCAAAAGAACCAGGATTGCA TTTGAAGTTAAGCTGCAAAAACAGTCGATCAACAGATTTTCGAGTCCCACAGTCAATA TGCACCATGTTTAATGTTATGGTTGATGCCAAAGCTCAATCAACAAAACCTTGCAGCATG GAAATGGGCCAAGAGCATCAATACCATTCAAAAATAGACGAACTAATTGAAGAACTGTT AAAGAAATGATAAACTCTTGGTTGCAAGNTCGTTACTATCTTGNAAGGAGTGCTGG CAAAATATCCAGATTGACGAAGGNACTTGNTTTCTTCTTTTGNCAATTTACCGNGAAGG CAGCTTCCAATATGTTGGATGTACCTAACCCGGNATGGACGTGGCCGACCCTACNTGACT TTCGTCGCATCTTCAGGATGTCTGCCTGATAGTCATGAAGGAGAGC
Restriction Sites:	NotI-NotI
ACCN:	AK000873
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:	AK000873.1
RefSeq Size:	2052 bp
RefSeq ORF:	2052 bp
Locus ID:	8618
Cytogenetics:	3p14.2

Gene Summary:

This gene encodes a novel neural/endocrine-specific cytosolic and peripheral membrane protein required for the Ca^{2+} -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]