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Product datasheet for SC309932

CAPS1 (CADPS) (NM_183393) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAPS1 (CADPS) (NM_183393) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAPS1
Synonyms:	CADPS1; CAPS; CAPS1; UNC-31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309932 representing NM_183393. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGACCCTTCGTCCAGCGAAGAAGAATCGGATGAGATCGTGGAGGAGGAGAGCGGCAAGGAGGTG
CTCGGCTCGGCCCCGTCCGGCGCGCGCCTGTCTCCCAGCCGTACCAGCGAGGGCTCGGCCGGCAGCGCC
GGGCTGGGGGGCGGCGGCGCCGGCGCCGGAGCCGGGGTGGGTGCAGGCGGCGGCGGGGGCAGCGGCGCG
AGCAGCGGCGGCGGGGCCGGGGGGCTGCAACCCAGCAGCCGCGCTGGCGGCGGCCGGCCCTCCAGCCCC
AGCCCGTCGGTGGTGAGCGAGAAGGAGAAGGAAGAGTTGGAGCGGCTGCAGAAAGAGGAGGAGGAGAGG
AAGAAGAGGCTGCAGCTGTATGTGTTCGTGATGCGCTGCATCGCCTACCCCTTTAATGCCAAGCAGCCC
ACCGACATGGCTCGCCGGCAGCAGAAGATCAGCAAACAGCAGCTGCAGACAGTCAAGGACCGGTTTCAG
GCTTTCCTCAATGGGGAAACCCAGATCATGGCTGACGAAGCCTTCATGAACGCTGTGCAGAGTTACTAT
GAGGTGTTCCTGAAGAGCGACCGTGTGGCCCGCATGGTTCAGAGTGGAGGCTGTTCCGCCAACGACTCC
CGGGAGGTCTTCAAGAAGCACATTGAGAAGAGAGTGCGCAGCCTGCCTGAGATTGACGGCCTCAGCAAG
GAGACTGTGCTGAGCTCCTGGATGGCCAAATTTGATGCCATCTACCGTGGAGAAGAGGACCCGCGGAAG
CAGCAGGCCCGGATGACAGCCAGCGCAGCCTCCGAGCTGATTCTGAGCAAGGAGCAACTCTATGAGATG
TTCCAGAACATTCTTGGGATCAAGAAGTTCGAACATCAGCTCCTTTACAATGCCTGCCAGCTGGACAAT
CCAGATGAGCAAGCAGCCCAGATCAGACGAGAGCTGGATGGACGTCTACAAATGGCAGACCAAATAGCC
AGGGAACGCAAATTTCCCAAGTTTGTATCCAAAGAAATGGAAAACATGTACATTGAGGAGCTGAAGTCA
TCTGTCAACCTGCTCATGGCCAACTTGGAGAGCATGCCGGTATCCAAAGGCGGGGAGTTCAAGCTCCAG
AAACTCAAACGCAGCCACAATGCTTCCATCATCGACATGGGCGAGGAGAGTGAGAACCAGCTCTCCAAG
TCAGATGTCGTGCTGTCTTTCTCATTGGAGGTGGTAATTATGGAAGTCCAAGGCCTCAAATCTTTGGCT
CCAAATCGCATCGTATATTGCACAATGGAGGTGGAAGGAGGAGAGAAACTACAGACTGATCAGGCCGAG
GCTTCTAAACCAACCTGGGGCACCCAGGGTGACTTCTCCACAACCCATGCACTGCCAGCTGTGAAGGTG
AAGCTGTTCACAGAGAGCACAGGCGTCCTGGCGTTGGAGGACAAGGAGCTTGGGCGGGTTATTCTCCAT
CCCACCCCGAACAGCCCCAAACAGTCAGAGTGGCACAAAATGACAGTCTCCAAAAACTGCCCCGACCAA

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GATCTCAAAATCAAACTTGCTGTCCGAATGGATAAGCCTCAAAACATGAAGCATTCTGGGTATTTATGG
GCCATCGGTAAGAATGTCTGGAAGAGATGGAAGAAAAGGTTTTTTGTATTGGTGCAGGTCAGTCAGTAC
ACGTTTGCCATGTGCAGTTATCGGGAGAAGAAAGCGGAGCCTCAGGAACTTCTACAATTGGATGGCTAC
ACTGTGGATTACACCGACCCCCAGCCAGGTTTGGAGGGTGGCCGAGCCTTCTTCAATGCTGTCAAGGAG
GGAGACACCGTGATATTTGCCAGTGACGATGAACAAGACCGCATCCTGTGGGTCCAGGCCATGTATCGG
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GTACCTCAGCTGGATGCCCCTATCTCTCAATTTTACGCAGATAGAGCTCAAAAACATGGCATGGATGAA
TTTATCTCTTCCAACCCCTGTAACTTTGACCACGCTTCCCTCTTTGAGATGGGCTGGTTCAGTCCTGGC
CAGGTGTTTGTACTAGACGAGTATTGCGCCCGAAATGGAGTCCGGGGGTGTCACCGACATCTCTGCTAC
CTCAGAGACTTGCTTGAACGGGCAGAAAATGGCGCCATGATCGACCCCACCCTTCTTCACTACAGCTTT
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GAACGTTTTGAAGAAATCAAAGAGAGGCTCCGAGTTCTGCTAGAAAATCAGATTACACATTTTAGGTAT
TGCTTTCCATTTGGTCGACCTGAAGGTGCTTTGAAAGCTACTCTCTCACTCTTGGAAAGGGTTTTGATG
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GCGTTAGTCAACTATTCTCGGCTCTCAGAGTATGCCAAAATCGAAGAAAATGTAGGCCGGTTAATCACT
CCTGCCAAAAAGCTTGAAGATACAATACGTCTTGCTGAACTAGTCATTGAAGTTCTTCAGCAAAATGAG
GAGCACCACGCAGAGGCCTTTGCGTGGTGGTCAGATTTAATGGTGGAGCATGCGGAGACGTTCCTGTCA
CTCTTTGCAGTAGACATGGATGCAGCCTTAGAGGTGCAACCTCCAGACACATGGGACAGTTTTCCACTA
TTTCAGCTGCTGAATGATTTTCTCCGTACTGACTATAATTTGTGCAATGGAAAATTTCACAAACACCTG
CAAGACCTGTTTGCCCCACTTGTTGTTAGATATGTGGATCTGATGGAGTCCTCAATTGCACAATCCATT
CACAGGGGCTTTGAGCGGGAGTCATGGGAACCAGTCAATAATGGGTCAGGCACCTCAGAAGATCTGTTT
TGGAAACTTGACGCCCTTCAGACCTTCATTCGGGACCTGCACTGGCCTGAAGAAGAGTTTGGAAAGCAC
CTGGAACAACGGCTGAAGTTGATGGCAAGTGACATGATCGAATCTTGTGTCAAAAGAACCAGGATTGCA
TTTGAAGTTAAGCTGCAAAAAACCAGTCGATCAACAGATTTTCGAGTCCCACAGTCAATATGCACCATG
TTTAATGTTATGGTTGATGCCAAAGCTCAATCAACAAAACTTTGCAGCATGGAAATGGGCCAAGAGCAT
CAATACCATTCAAAAATAGACGAACTAATTGAAGAAACTGTTAAAGAAATGATAACACTCTTGGTTGCA
AAGTTCGTTACTATCTTGGAAGGAGTGCTGGCAAAATTATCCAGATATGACGAAGGGACTTTGTTTTCT
TCTTTTCTGTCATTTACCGTGAAGGCAGCTTCCAAATATGTGGATGTACCTAAACCCGGGATGGACGTG
GCCGACGCCTACGTGACTTTCGTCCGCCATTCTCAGGATGTCCTGCGTGATAAGGTCAATGAGGAGATG
TACATAGAAAGGTTATTTGATCAATGGTACAACAGCTCCATGAACGTGATCTGCACCTGGTTGACGGAC
CGGATGGACTTACAGCTTCATATTTATCAGTTGAAAACACTAATTAGGATGGTAAAGAAAACCTACAGA
GATTTCCGATTGCAAGGGGTCCTGGACTCCACCTTAAACAGCAAGACCTATGAAACGATCCGGAACCGT
CTCACTGTGGAGGAAGCCACAGCATCAGTGAGTGAAGGTGGGGGACTGCAGGGCATCAGCATGAAGGAC
AGCGATGAGGAAGACGAAGAAGACGATTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_183393

Insert Size: 3825 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_183393.2
RefSeq Size:	5245 bp
RefSeq ORF:	3825 bp
Locus ID:	8618
UniProt ID:	Q9ULU8
Cytogenetics:	3p14.2
MW:	144.1 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] Transcript Variant: This variant (3) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 3, which is the shortest isoform and lacks multiple internal regions, 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.