

Product datasheet for **SC318569**

CADPS2 (NM_001009571) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: CADPS2 (NM_001009571) Human Untagged Clone
Tag: Tag Free
Symbol: CADPS2
Synonyms: CAPS2
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_001009571, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGACCCGCTTCCAGCGAAGAGGAGTCCGACGAGGGGCTGGAAGAGGAAAGCCGC
GATGTGCTGGTGGCAGCCGGCAGCTCGCAGCGAGCTCCTCCAGCCCCGACTCGGGAAGGG
CGGCGGGACGCGCCGGGGCGCGGGGGCGGCGCGGCCAGATCTGTGAGCCCGAGC
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CGGAGGATCCGCCTGCAGCTCTACGTCTTCGTGCTGAGGTGCATCGCGTACCCCTTCAAC
GCCAAGCAGCCCACCGACATGGCCCGGAGGCGAGCAGAAGCTTAACAAACAACAGTTGCAG
TTACTGAAAGAACGGTTCAGGCCTTCCCTCAATGGGAAACCCAAATTGTAGCTGACGAA
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TGTCAGCTGGATAACGCAGATGAACAAGCAGCCAGATCAGAAGGGAAGTGTGATGGCCGG
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GCTGTTAAAGAAGGAGATACTGTAATCTTGGCAGTGTATGAACAGGACAGAATTA

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TGGGTTCAAGCCATGTATAGGGCCACAGGTCAATCATATAAACCAGTTCCTGCAATTCAA
 ACCCAGAAACTGAATCCTAAAGGAGGAAGCTCTCCATGCAGATGCTCAGCTTTATGCAGAT
 CGTTTTTCAGAAACATGGTATGGATGAGTTTATTCTGCAAACCCCTGCAAGCTTGATCAT
 GCCTTCCTTTTTAGAATACTCCAGAGGCAGACTTTGGATCACAGACTGAATGATTCTAT
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 GATATGCTAGAGGCTGTGTCAAAGAACAAGAAGTGCATTTGAACTCAAGCTACAAAAG
 GCAAGCAAAAACAACTGACTTGCAGCTTCCAGCTTCCGTTTGCATATGTTAATGTATTA
 GTCGATGCCAAAAAGCAAGCACCAAACTCTGTGCCCTGGATGGAGGACAAGAGTTTGGT
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 TTAGACCTCCAATCCATATTTACCAGCTGAAGACGCTCATCAAGATTGTGAAGAAAACC
 TACAGGGACTTTTCGATTGCAGGGTGTGTTGGAAGGAACACTGAACAGTAAGACTTATGAT
 ACTGTGCACAGACGTTTAAACAGTAGAGGAGGCCACAGCCTCTGTTTCAGAAGGAGGAGGA
 CTTCAGGGCATTACTATGAAAGACAGTGACGAAGAAGAAGAAGGC

- Restriction Sites:** Please inquire
- ACCN:** NM_001009571
- Insert Size:** 5951 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_001009571.2](#), [NP_001009571.2](#)

RefSeq Size: 5951 bp

RefSeq ORF: 3768 bp

Locus ID: 93664

UniProt ID: [Q86UW7](#)

Cytogenetics: 7q31.32

Gene Summary: This gene encodes a member of the calcium-dependent activator of secretion (CAPS) protein family, which are calcium binding proteins that regulate the exocytosis of synaptic and dense-core vesicles in neurons and neuroendocrine cells. Mutations in this gene may contribute to autism susceptibility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2009]

Transcript Variant: This variant (2) lacks three alternate in-frame exons and includes an alternate in-frame exon, compared to variant 3. The resulting isoform (b) differs in four regions and is shorter compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.