

Product datasheet for **RG216560**

CADPS2 (NM_017954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CADPS2 (NM_017954) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CADPS2
Synonyms:	CAPS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216560 representing NM_017954 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGACCCGTCTTCCAGCGAAGAGGAGTCCGACGAGGGGCTGGAAGAGGAAAGCCGCGATGTGCTGG
TGGCAGCCGGCAGCTCGCAGCGAGCTCCTCCAGCCCCGACTCGGGAAGGGCGGGGACGCGCCGGGGCG
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CCCCAGCGGCAGCTGGACGATGAGCAGGAGCGGAGGATCCGCCTGCAGCTCTACGTCTTCGTCTGAGGT
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AGTGGATATCTGTATGCCCTTGGACAGAAGGTTTGGAAAAGATGGAAAAACGTTACTTTGTTCTAGTTC
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GCATTACTATGAAAGACAGTGACGAAGAAGAAGAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216560 representing NM_017954
 Red=Cloning site Green=Tags(s)

MLDPSSSEEESEGLEEEESRDVLAAGSSQRAPPAPTREGRRDAPGRAGGGGAARSVSPSPSVLSEGRDE
 PQRQLDDEQERRIRLQLYFVVRCAIYPFNAKQPTDMARRQQLNKOQLQLLKERFQAFLNGETQIWADE
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 LQLADKMAKERKFPKFI AKDMENMYIEELRSSVLLMANLESLPVSKGGPEFKLQKLKRSQNSAFLDIGD
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 FLRNDTLLCNGKFHKLQEIFVPLVVRVYVDMESSIAQSIHRGFEQETWQPVKNIANSLPNVALPKVPSL
 PLNLPQIPNISTASWMPPLYESTNGSATSEDLFWKLDALQMFVFDLHWPEQEFHHLLEQLKLMASDMLE
 ACVKRTRTAFELKQKASKTTDLRIPASVCTMFNVLDVAKKQSTKLCALDGGQEQQYHSKIDDLIDNSVK
 EIIISLLVSKFVSVLEGLVSKLSRYDEGTFSSILSFTVKAALKYVDVPPKPGMDLADTYIMFVRQNQDILR
 EKVNEEMYIEKLFQWYSSSMKVICVWLTDRLDLQLHIYQLKTLIKIVKKTYRDFRLQGVLEGLNLSKTY
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TRTRPLE - GFP Tag - V

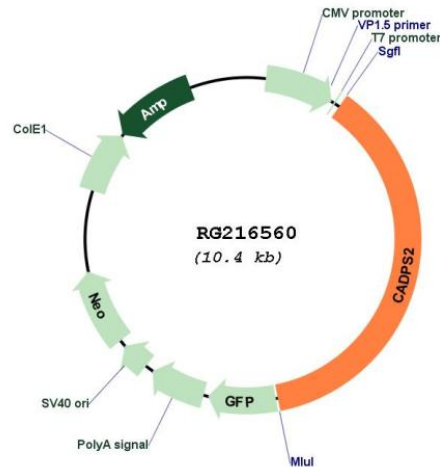
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017954

ORF Size: 3888 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_017954.9](#), [NP_060424.9](#)

RefSeq Size: 5815 bp

RefSeq ORF: 3891 bp

Locus ID: 93664

UniProt ID: [Q86UW7](#)

Cytogenetics: 7q31.32

Domains: PH

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]