

## Product datasheet for **MC228899**

### Cadps2 (NM\_001252107) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps2 (NM_001252107) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadps2
Synonyms:	A230044C21Rik; Caps-2; Caps2; Cpd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228899 representing NM\_001252107  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTCGACCCGCTTCCAGCGAGGAGGAGTCGGACGAGGGGCTGGAGGAGGAGACCCGCGAGGTGTTGG  
 TGGCGCCGGGCGTCTCCAGCGAGCGCCCGCCGCGGCTCGGGAAGGGCGCGGGACGCGCCGGGACG  
 CTCGGTGGTGGCAGCGCGCGGAGCGCCAGACCCGTGAGCCGAGCCCTCGGTACTCAGCGAGGGG  
 CGAAATGAGCCGAGCTGCAGCTGGACGAGGAGCAGGAGCGCGCATCCGCTGCAGCTCTACGTCTTCG  
 TGGTGAGGTGCATCGCGTACCCATTCAACGCCAAGCAGCCACCACATGGCCCGGAGGCAGCAGAAGCT  
 TAACAAACAACAATTGCAGTTACTGAAAGAACGGTTCAGGCCTTCTCAATGGAGAACTCAGATAGTA  
 GCAGACGAAGCCTTCTGCAATGCCGTCCGGAGTACTATGAGGTGTTTCTAAAGAGTGACCGTGTGGCCA  
 GAATGGTTCAAAGTGAGGATGCTCTGCTAATGATTTTCAGAGAGGTGTTTAAAGAACAATAGAAAAACG  
 TGTCGGTAGCCTGCCAGAGATAGATGGCCTGAGCAAAGAGACAGTGTGAGCTCATGGATAGCCAAATAT  
 GACGCCATTTACAGGGGAGAAGAAGATTTGTGCAAACAGCCGAACAGGATGACCCCTCAGTGCCGTGTCTG  
 AGCTTATTCTGAGTAAGGAGCAGCTCTATGAAATGTTCCAGCAGATTCTGGGCATTAAGAAGCTGGAACA  
 CCAGCTACTTTATAACGCATGCCAGCTGGATAACGCTGATGAACAAGCAGCCAGATCAGAAGGGAAGCTT  
 GATGGCCGCTGCAGTTGGCAGAGAAGATGGCAAAGGAGAGAAGATCCCCAGATTCATCTCGAAAGAAA  
 TGGAGAGTATGTACATTGAAGAGCTGCGAGCCTCCGTGAACCTGCTAATGGCCAATTTAGAAAGTCTTCC  
 AGTTTCAAAGGTGGCCCGAATTTAAATTACAAAAATTAAGCGTTCGAGAAGCTGCGTTTCTGGAC  
 CTGGGAGATGAGAACGAGATCCAGCTGTCCAAGTCGGATGTGGTGTGTCGTTACGTTAGAGATTGTCA  
 TCATGGAAGTGAAGACTGAAATCTGTGGCTCCAATCGAATCGTTTACTGCACAATGGAGGTGGAAGG  
 AGGAGAAAAACTCCAGACAGACCAGGCTGAAGCATCAAGGCCACAATGGGGGACCAAGGAGATTTCAAC  
 ACTACCCACCCTCGGCCTGTCGTCAAAGTGAAGCTCTTACAGAAAGCACGGGGTCTGCCCTGGAAG  
 ACAAGGAACTGGGCAGGGTGGTGTATACCCAACTTCTAATAGCTCCAAGTCAGCAGAGTTACACCGAAT  
 GACAGTACCCAAGAACAGTCAGGACTCGGACCTAAAGTCAAATGGCAGTGCATGGATAAACCCAGCA  
 CACATGAAGCATAGTGGTACCTGTATGCCCTGGACAGAAGGTTTGGAAAAGATGGAAAAGCGTTACT  
 TTGTTCTCGTTCAGTTAGCCAGTACACCTTGTATGTGCAGCTATAGAGAAAAAAGTCGGAACCACA  
 GGAATTAATGCAACTGGAAGGATACACAGTGGATTACACAGACCCTCACCCAGGCCTTCAGGGTGGTCAG  
 GTGTTCTTCAACGCTGTTAAAGAGGGAGATACTGTGATCTTGGCAGTGTGATGAACAGGACAGAATAT  
 TATGGGTACAAGCCATGTACAGGGCTACAGGCCAGTCTTACAAACCAGTTCCTGCAGTCCAAGCCAGAA  
 GCTGAATCCTAAAGGCGGAGCTCTCCATGCAGATGCTCAGCTTTATGCAGACCGTTTTGAGAAACACGGG  
 ATGGATGAGTTTATTTCTGCGAGTCTTGAAGCTTGACCATGCCTTCTCTTTCAGAATTCAGAGAC  
 AGACTTTGGATCACAGACTGAATGATTCGTATTCTTGTGGGGTGGTTAGCCCTGGCCAAAGTCTTTGT  
 GTTAGATGAGTACTGTGCCCGCTACGGAGTGAGAGGCTGTACAGGCATCTCTGTACCTTACAGAACTG  
 ATGGAACATTAGAAAACGGTGTGTCATTGACCCACCCTGTCCATTACAGCTTTGCATTCTGTGCCT  
 CTCACGTGCACGGCAACAGATTTCTTTCTTTTCTTTTTTTTTTTTCTTCCACAATCCTGTGTGAGTTT  
 CAGGTTATTTACAGAGTGGCAGAGTGTGAAGGAACTCAGCGTTCAGAACATCTGACTCAAAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001252107  
**Insert Size:** 2307 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001252107.1, NP_001239036.1</u>
<b>RefSeq Size:</b>	3148 bp
<b>RefSeq ORF:</b>	2307 bp
<b>Locus ID:</b>	320405
<b>Cytogenetics:</b>	6 A3.1
<b>Gene Summary:</b>	<p>Calcium-binding protein involved in exocytosis of vesicles filled with neurotransmitters and neuropeptides. Probably acts upstream of fusion in the biogenesis or maintenance of mature secretory vesicles. Regulates neurotrophin release from granule cells leading to regulate cell differentiation and survival during cerebellar development. May specifically mediate the Ca(2+)-dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) lacks several exons in the central and 3' coding regions, but includes an alternate 3' exon and thus differs in its 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (4, also known as CAPS2d) has a distinct and significantly shorter C-terminus, compared to isoform 1.</p>