

Product datasheet for MC224209

Cadps2 (NM_153163) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps2 (NM_153163) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadps2
Synonyms:	A230044C21Rik; Caps-2; Caps2; Cpd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224209 representing NM_153163 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCGACCCGTCCTCCAGCGAGGAGGAGTCCGACGAGGGGCTGGAGGAGGAGAGCCGCGAGGTGTTGG
TGGCGCCGGGCGTCTCCAGCGAGCGCCCGCGCGGCTCGGAAGGGCGCGGGACGCGCCGGGACG
CTCCGGTGGTGGCAGCGCGCGGAGCGCCAGACCCGTGAGCCCGAGCCCTCGGTACTCAGCGAGGGG
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TGGTGAGGTGCATCGCGTACCCATTCAACGCCAAGCAGCCACCGACATGGCCCGGAGGCAGCAGAACT
TAACAAACAACAATTGCAGTTACTGAAAGAACGGTTCCAGGCCTTTCTCAATGGAGAACTCAGATAGTA
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TCATGGAAGTGAAGGACTGAAATCTGTGGCTCCCAATCGAATCGTTTACTGCACAATGGAGGTGGAAGG
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GACAGTACCCAAGAACAGTCAGGACTCGGACCTAAAGATCAAATTTGGCAGTGCAGATGGATAAACCGCA
CACATGAAGCATAGTGGGTACCTGTATGCCCTTGACAGAAGGTTTGAAAAGATGGAAAAGCGTTACT



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TTGTTCTCGTTCAGGTTAGCCAGTACACCTTTGCTATGTGCAGCTATAGAGAAAAAAGTCGGAACCACA
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CCCCTTTTCCAGCTGCTTAATAATTTCTCAGAAATGACACACTTTTGTGTAATGGAAAATTCACAAGC
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TGGCTTCTTATATGAGTCCACCAATGGCTCAACAAGTTCGAGGATCTGTTCTGGAAGCTCGATGCGCT
GCAAAATGTTCTGTTGATCTCCATTGGCCAGAACAAGAGTTTGGCCACCCTTAGAGCAAAGACTTAAA
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GATTTGATTGACAACACCGTGAAGAAATCATTGCACTGCTGGTTTCAAAGTTTGTTCAGTGTGGAAG
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AGCAGCTGCAAAAATGTGGATGTCCTAAACCAGGAATGGATCTGCCAGACACCTACATTATGTTTGTG
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GGTACAGCAATTCATGAAAGTCATTTGTGTGGCTGGCTGACAGACTAGACCTCCAGCTTCATATTTA
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GGGACGCTGAACAGTAAGACATATGATACTCTGCACAGACGTCTAACTGTAGAGGAGGCCACAGCCTCTG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_153163
- Insert Size:** 3915 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).
- 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_153163.4](#), [NP_694803.3](#)

RefSeq Size: 4969 bp

RefSeq ORF: 3915 bp

Locus ID: 320405

Cytogenetics: 6 A3.1

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1, also known as CAPS2b).