

Product datasheet for **MC220776**

Cadps (BC079679) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps (BC079679) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadps
Synonyms:	CAPS, CAPS1, mKIAA1121
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC079679
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGACCCTTCGTCCAGCGAAGAGGAGTCAGATGAGATCCTGGAAGAGGAGAGGGGCAAGGATGTGC
 TGGGCTCGGCCGGCTCTGGAGCGCGCTGTCTCCAGCCGACACAGCAGGGCTCGGCAGGCAGCCCGG
 GATGGGGGGCAGTGGCGCCGGGGCCGGGTGGGCGCCGGCGGCTGGGGTAGCGGCAGCAGCGGC
 GGCGGGCCGGGGGGCTGCAGCCAGCAGCCGCGCCGGCGGCGGCCGCTTCCAGCCCTAGCCCGTCGG
 TGGTGAGCGAGAAGGAGAAGGAAGAGTTGGAGAGGCTGCAGAAGGAGGAGGAAGAGGAAGAAGAGGCT
 GCAGCTGTACGTGTTCTGTGATGCGCTGCATCGCTACCCCTTCAACGCCAAGCAGCCACCACGATGGCT
 CGGCGGCAGCAGAAGATCAGCAAACAGCAGCTACAGACTGTCAAAGACCGGTTCCAGGCTTTTCTCAATG
 GGGAGACCCAAATCGTAGCTGATGAAGCCTTTATGAATGTGTCCAGAGCTACTATGAGGTGTTTCTCAA
 GAGTGACCGTGTGGCCCGCATGGTGCAGAGTGGGGGCTGCTCAGCCAATGACTCTCGGGAGGTCTTCAAG
 AAACACATCGAGAAGAGGGTGGCGAGCCTACCTGAGATTGACGGCTCAGCAAGGAGACAGTGCTAAGCT
 CTTGGATGGCCAAGTTTGTATGCCATCTACCGTGGTGGAGGAGACCCAGGAAGCAGCAAGCCCGGATGAC
 AGCCAGTGCAGCTTCTGAGTTGATTCTGAGCAAGGAACAGCTCTATGAGATGTTTCAAGAACATTCTGGG
 ATCAAGAAGTTTGAACATCAACTCCTGTATAATGCCTGTGAGTGGACAATCCAGATGAGCAGGCAGCCC
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 GTTCGTATCCAAAGAAATGGAACATGTACATTGAGGAGCTGAAGTCTCCGTCAACCTGCTCATGGCC
 AACTTGGAGAGCATGCCGGTGTCCAAGGGTGGAGAGTTCAAGCTACAGAACTGAAACCGAGTCAACAATG
 CTTCATCATTGACATGGTGGAGAGAGTGAACACCAGCTTTCTAAGTCAGATGTCCTGCTGCTCTTCTC
 CTTGGAGGTGGTATCATGGAAGTCCAAGGCCTTAAGTCCTTGGCTCCAATCGAATTGTATACTGCACA
 ATGGAGGTGGAGGTGGAGAGAACTTCAAGACAGATCAAGCAGAGGCTTCTAAACCAACCTGGGGCACTC
 AAGGCGACTTCTCCACAACCCATGCGCTGCCAGCTGTTAAAGTAAAATATTACAGAGAGCACTGGTGT
 CCTGGCCTTGGAAAGACAAGGAACCGGGCGGGTATCCTCCATCCACCCCAAAATAGCCCAAAACATCT
 GAGTGGCACAATAAGACAGTCTCCAAAACCTGCCCGATCAAGACCTCAAAATCAAACCTGCTGTCCGAA
 TGGATAAGCCTCAAAACATGAAGCACTCTGGTACTTATGGACCATTGGTAAGAATGTGTGAAGAGGTG
 GAAGAAGAGGTTCTTTGTGTTGGTGCAGGTGAGCCAGTACTTTTCCATGTGCAGCTATCGAGAAAAG
 AAGGCAGAGCCTCAGGAACCTACAGTGGACGGCTACACCGTGGATTACACCGACCTCAGCCAGGTT
 TGGAGGGTGGCCGAGCCTTCTCAATGCAGTCAAAGAAGGAGACACGGTGATATTGCAAGTGATGATGA
 ACAAGATCGAATTTTGTGGTCCAAGCTATGTACAGGGCCACTGGCCAGTCGCACAAACCTGTTCCCCCT
 ACCCAGGTGCAGAAGCTCAACGCCAAGGGCGGAAATGTGCCTCAGCTGGATGCCCCATCTCACAATTTT
 ACGCAGATAGAGCTCAGAAGCATGGCATGGATGAATTTATCTCTTCAACCCCTGTAACCTTGACCACGC
 TTCCCTCTTTGAGATGGTGCAGCGGCTGACTTTGGATCACAGACTTAATGATTCTATTCTTGCCTGGGC
 TGGTTCAGTCTGGCCAGGTGTTTGTGTTAGATGAGTATTGCGCCAGAAATGGAGTCCGAGGATGTCACC
 GGCATCTCTGCTACCTTAGAGACTTGTGGAACGAGCAGAAAATGGCGGATGATTGACCCACGCTTCT
 TCACTACAGCTTTGCCTTCTGCGCTCCATGTCCATGGTAACAGGCCTGATGGAATCGAACTGTGACT
 GTTGAAGAAAAAGAACGCTTTGAAGAAATCAAAGAGAGACTCCGAGTTCTGCTGGAATAAATCAATACAC
 ATTTACAGTACTGCTTTCCATTTGGTGCAGCTGAAGGTGCTTTGAAAGCTACTCTCACTCTTGGAACG
 GGTTTTGATGAAAGATATTGTCAGTACCACAAGAAGAGGTCAAACCTGTCATCCGTAATGCCTA
 GAGCAGGTGCTCTAGTCAACTACTCACGCCTATCTGAGTATGCCAAAATGAAGGTAAGACTTCTATCT
 GTCAGTTGTTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
 ACCN: BC079679

Insert Size:	1602 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:	<ol style="list-style-type: none">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:	<u>BC079679</u>
RefSeq Size:	7872 bp
RefSeq ORF:	2603 bp
Locus ID:	27062
Cytogenetics:	14 A1
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 catecholamine loading of DCVs. May specifically mediate the Ca(2+)-dependent exocytosis of large dense-core vesicles (DCVs) and other dense-core vesicles by acting as a PtdIns(4,5)P2-binding protein that acts at prefusion step following ATP-dependent priming and participates in DCVs-membrane fusion. However, it may also participate in small clear synaptic vesicles (SVs) exocytosis and it is unclear whether its function is related to Ca(2+) triggering (By similarity).[UniProtKB/Swiss-Prot Function]