

Product datasheet for MC224324

Cadps (NM_012061) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cadps (NM_012061) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cadps
Synonyms: AU067781; CAPS; CAPS1; mKIAA1121
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224324 representing NM_012061
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGGACCCTTCGTCCAGCGAAGAGGAGTCAGATGAGATCCTGGAAGAGGAGAGGGGCAAGGATGTGC
 TGGGCTCGGCCGCTCTGGAGCGCGCTGTCTCCAGCCGACCAGCGAGGGCTCGGCAGGCAGCGCCGG
 GATGGGGGCGAGTGGCGCCGGGGCCGGGTGGGCGCCGGCGGCGGTGGGGGTAGCGGCGCAGCAGCGGC
 GCGGGGGCCGGGGGCTGCAGCCAGCAGCCGCGCCGGCGGCGGCGGCTTCCAGCCCTAGCCCGTCGG
 TGGTGAGCGAGAAGGAGAAGGAAGATTGGAGAGGCTGCAGAAGGAGGAGGAAGAGGAAGAAGAGGCT
 GCAGCTGTACGTGTTCTGTGATGCGCTGCATCGCCTACCCCTTCAACGCCAAGCAGCCACCACGATGGCT
 CGGCGGCAGCAGAAGATCAGCAAACAGCAGCTACAGACTGTCAAAGACCGGTTCCAGGCTTTTCTCAATG
 GGGAGACCCAAATCGTAGCTGATGAAGCCTTTATGAATGCTGTCCAGAGCTACTATGAGGTGTTTCTCAA
 GAGTGACCGTGTGGCCGCATGGTGCAGAGTGGGGGCTGCTCAGCCAATGACTCTCGGGAGGTCTTCAAG
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 CTTGGATGGCCAAGTTTGTGATGCCATCTACCGTGGTGGAGGAGACCCAGGAAGCAGCAAGCCGGATGAC
 AGCCAGTGCAGCTTCTGAGTTGATTCTGAGCAAGGAACAGCTCTATGAGATGTTTCAGAACATTCTTGGG
 ATCAAGAAGTTTGAACATCAACTCCTGTATAATGCCTGTCAGCTGGACAATCCAGATGAGCAGGCAGCCC
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 AACTTGGAGAGCATGCCGGTGTCCAAGGGTGGAGAGTTCAAGCTACAGAAACTGAAACGCAGTCACAATG
 CTTCCATCATTGACATGGGTGAGGAGAGTGAGAACCAGCTTTCTAAGTCAGATGTCCTGCTGCTCTCTC
 CTTGGAGGTGGTATCATGGAAGTCCAAGGCCTTAAGTCCTTGGCTCAAATCGAATTGTATACTGCACA
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 AAGGCGACTTCTCCACAACCCATGCGCTGCCAGCTGTTAAAGTAAACTATTACAGAGAGCACTGGTGT
 CCTGGCCTTGAAGACAAGGAACCTCGGGCGGGTATCCTCCATCCCACCCAAATAGCCCAAACAACTCT
 GAGTGGCACAAAAATGACAGTCTCAAAAACCTGCCCGATCAAGACCTCAAATCAAACCTGCTGTCCGAA



TGGATAAGCCTCAAACATGAAGCACTCTGGGTA CTTATGGACCATTGGTAAGAATGTGTGGAAGAGGTG
 GAAGAAGAGGTTCTTTGTGTTGGTGCAGGTCAGCCAGTACACTTTTGCCATGTGCAGCTATCGAGAAAAG
 AAGGCAGAGCCTCAGGAACCTCTACAGCTGGACGGCTACACCGTGGATTACACCGACCCTCAGCCAGGTT
 TGGAGGGTGGCCGAGCCTTCTTCAATGCAGTCAAAGAAGGAGACACGGTGATATTTGCAAGTGATGATGA
 ACAAGATCGAATTTTGTGGTCCAAGCTATGTACAGGGCCACTGGCCAGTCGCACAAACCTGTTCCCCT
 ACCCAGGTGCAGAAGCTCAACGCCAAGGGCGGAAATGTGCCTCAGCTGGATGCCCCATCTCACAATTTT
 ACGCAGATAGAGCTCAGAAGCATGGCATGGATGAATTTATCTCTTCCAACCCCTGTAACCTTGACCACGC
 TTCCTCTTTGAGATGGTGCAGCGGCTGACTTTGGATCACAGACTTAATGATTCTATTCTTGCCTGGGC
 TGGTTCAGTCCTGGCCAGGTGTTTGTGTTAGATGAGTATTGCGCCAGAAATGGAGTCCGAGGATGTCACC
 GGCATCTCTGCTACCTTAGAGACTTGTGGAACGAGCAGAAAATGGCGCGATGATTGACCCACGCTTCT
 TCACTACAGCTTTGCCTTCTGCGCTCCCATGTCCATGGTAACAGGCCTGATGGAATCGAACTGTGACT
 GTTGAAGAAAAGAACGCTTTGAAGAAATCAAAGAGAGACTCCGAGTTCTGCTGGAATCAAATTACAC
 ATTTCAAGTACTGCTTTCCATTTGGTCGACCTGAAGGTGCTTTGAAAGCTACTCTCTCACTTTGGAACG
 GGTTTTGATGAAAGATATTGTCCTCCAGTACCACAAGAAGAGGTCAAACCTGTCATCCGTAATGCCTA
 GAGCAGGCTGCTCTAGTCAACTACTCACGCTATCTGAGTATGCCAAAATGAAGGAAAAAGAGAGAAA
 TGTATAGCATCCTGCTTCTGCTTGGCCTCCCAAGTGATGGATTAACCATTAATAATGTAGGCCGCTT
 AATCACTCCCGCCAAAAGCTCGAAGACACAATCCGTCTTGTGAACTAGTCATCGAAGTACTGCAACAA
 AACGAGGAGCACCACGCCGAGGCCCTTTCGCTGGTGGTCAGACTTAATGGTGGAGCATGCGGAGACGTTCC
 TGTCACTCTTTCAGTGGACATGGATGCAGCCTTAGAGGTGCAACCCCGAGACAGTGGGACAGTTTCCC
 ACTCTCCAGCTGCTGAATGACTTTCTCCGTACAGACTATAATTTGTGCAATGGAAGTTTCACAAAAC
 CTGCAGGACCTGTTGCGCCCACTTGTGTTAGATATGTGGATCTGATGGAGTCTCCATTGCACAATCTA
 TCCACAGGGGCTTTGAGCGGGAGTCATGGGAGCCAGTCAAGAGTTTAACCAAGTAACTACCAATGTGAA
 CCTACCAATGTGAACCTACCAAGTACCAAACTACCAGTTAACATCCCTCTAGGCATCCACAGATG
 CCCACTTTTTCGGCACCGTCATGGATGGCTGCTATATATGATGCTGATAATGGATCAGGTACATCAGAAG
 ATTTGTTCTGAAACTTGATGCCCTCAGACTTTCATCCGTGACCTACACTGGCCTGAGGAAGATTTGG
 AAAACACTTAGAGCAGCGGCTAAAACCTGATGGCAAGTGACATGATTGAGTCTGCGTCAAAAAGACCAGG
 ATTGCATTTGAAGTTAAGCTGCAAAAACCAGTCGATCAACAGATTTTCGAGTCCACAGTCAATATGCA
 CCATGTTAATGTTATGGTTGATGCCAAAGCTCAATCAACAAAACCTTTCAGCATGGAAATGGGCCAAGA
 GCATCAATACCATTCAAAAATAGATGAACTAATGAAGAAACCGTTAAAGAAATGATCACACTTTTGGT
 GCAAAGTTTGAACATATTGGAAGCGTACTGGCAAAGTTATCCAGATATGACGAGGGGACTTTGTTTT
 CTTGTTTTCTGTCATTACGGTGAAGGCAGCTTCCAAGTATGTGGACGTGCCTAAACCCGGGATGGACGT
 GGCAGCCTACGTGACTTTCTGCTCCGCTTCTCAGGATGTCTTCTGATAAGGTCAATGAGGAGATG
 TATATAGAAAGGTTATTTGATCAATGGTACAACAGCTCCATGAACATCATCTGCACGTGGCTGACCGACA
 GGATGGACCTGCAGCTCCACATTTACCAGCTGAAAACCTGATCAGGATGGTAAAGAAAACCTATAGAGA
 TTTCCGATTGCAAGGGTCTGGATTCCACCTTAACAGCAAGACCTATGAGACCATCCGAAACCGTCTC
 ACTGTGGAGGAAGCTACAGCGTCAGTGAGTGGGGTGGGGCTTACAAGGTATCAGCATGAAGGACAGTG
 ATGAGGAAGATGAAGAAGATGAT TAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_012061

Insert Size: 4086 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:	NM_012061.3 , NP_036191.2
RefSeq Size:	5478 bp
RefSeq ORF:	4086 bp
Locus ID:	27062
UniProt ID:	Q80TJ1
Cytogenetics:	14 A1
Gene Summary:	<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 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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).</p>