

Product datasheet for MR224886

Cadps (NM_012061) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps (NM_012061) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadps
Synonyms:	AU067781; CAPS; CAPS1; mKIAA1121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224886 representing NM_012061 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGACCCTTCGTCCAGCGAAGAGGAGTCAGATGAGATCCTGGAAGAGGAGAGGGGCAAGGATGTGC
TGGGCTCGGCCGCTCTGGAGCGCGCTGTCTCCAGCCGACCAGCGAGGGCTCGGCAGGCAGCGCCGG
GATGGGGGCGAGTGGCGCCGGGGCCGGGTGGGCGCCGGCGGGTGGGGTAGCGGCAGCAGCGGC
GGCGGGGCGGGGGCTGCAGCCAGCAGCGCGCCGGCGGGCGCCGGCCTTCCAGCCCTAGCCCGTCCG
TGGTGAGCGAGAAGGAGAAGGAAGATTGGAGAGGCTGCAGAAGGAGGAGGAAGAGGAAGAAGAGGCT
GCAGCTGTACGTGTTCTGTATGCGCTGCATCGCCTACCCCTCAACGCCAAGCAGCCACCACATGGCT
CGCGCGCAGCAGAAGATCAGCAAACAGCAGCTACAGACTGTCAAAGACCGTTCCAGGCTTTTCTCAATG
GGGAGACCCAAATCGTAGCTGATGAAGCCTTATGAATGTCTCCAGAGCTACTATGAGGTGTTTCTCAA
GAGTGACCGTGTGGCCCGCATGGTGCAGAGTGGGGGCTGCTCAGCCAATGACTCTCGGGAGGTCTTCAAG
AAACACATCGAGAAGAGGGTGGCAGCCTACCTGAGATTGACGGCCTCAGCAAGGAGACAGTGCTAAGCT
CTTGGATGGCCAAGTTTGTATGCCATCTACCGTGGTGAGGAGGACCCAGGAAGCAGCAAGCCCGATGAC
AGCCAGTGCAGCTTCTGAGTTGATTCTGAGCAAGAACAGCTCTATGAGATGTTTCAGAACATTCTTGGG
ATCAAGAAGTTTGAACATCAACTCCTGTATAATGCCTGTCAGCTGGACAATCCAGATGAGCAGGCAGCC
AGATCAGACGAGAGCTGGATGGACGTCTCAAATGGCAGATCAAATAGCCAGGGAACGCAAATTTCTTAA
GTTCTGATCCAAAGAAATGGAACATGTACATTGAGGAGCTGAAGTCCCTCCGTCAAACCTGCTCATGGCC
AACTTGGAGAGCATGCCGGTGTCCAAGGGTGGAGAGTTCAAGCTACAGAACTGAAACGCAGTCACAATG
CTTCCATCATTGACATGGGTGAGGAGAGTGAGAACCAGCTTTCTAAGTCAGATGTCCTGTCTCTCTC
CTTGGAGTGGTGATCATGGAAGTCCAAGGCTTAAGTCTTGGCTCAAATCGAATTGTATACTGCACA
ATGGAGTGGAGGTGGAGAGAACTTCAGACAGATCAAGCAGAGGCTTCAAACCAACCTGGGGCACTC
AAGGCGACTTCTCCACAACCCATGCGCTGCCAGCTGTTAAAGTAAACTATTACAGAGAGCACTGGTGT
CCTGGCCTTGAAGACAAGGAACCTGGGGGGTGATCCTCCATCCACCCCAAATAGCCCAAACAATCT

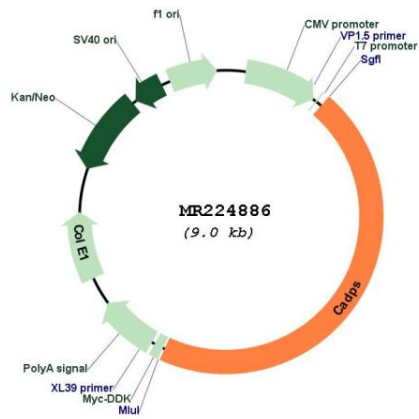


GAGTGGCACAAAATGACAGTCTCAAAAAAGTCCCGGATCAAGACCTCAAAATCAAACCTTGCTGTCCGAA
TGGATAAGCCTCAAAACATGAAGCACTCTGGTACTTATGGACATTGGTAAGAATGTGTGGAAGAGGTG
GAAGAAGAGGTTCTTTGTGTTGGTGCAGGTGAGCCAGTACACTTTTGCCATGTGCAGCTATCGAGAAAAG
AAGGCAGAGCCTCAGGAACCTCTACAGTGGACGGCTACACCGTGGATTACACCGACCCTCAGCCAGGTT
TGGAGGGTGGCCGAGCCTTCTTCAATGCAGTCAAAGAAGGAGACCGGTGATATTTGCAAGTGATGATGA
ACAAGATCGAATTTTGTGGTCCAAGCTATGTACAGGGCCACTGGCCAGTCGCACAAAACCTGTTCCCCCT
ACCCAGTGCAGAAGCTCAACGCCAAGGGCGGAAATGTGCCTCAGCTGGATGCCCCATCTCACAATTTT
ACGCAGATAGAGCTCAGAAGCATGGCATGGATGAATTTATCTCTTCCAACCCCTGTAACCTTTGACCACGC
TTCCTCTTTGAGATGGTGCAGCGGCTGACTTTGGATCACAGACTTAATGATTCTATTCTTGCCTGGG
TGGTTCAGTCTGGCCAGGTGTTTGTGTTAGATGAGTATTGCGCCAGAAATGGAGTCCGAGGATGTCACC
GGCATCTCTGCTACCTTAGAGACTTGTGGAACGAGCAGAAAAAGGCGCGATGATTGACCCACGCTTCT
TCACTACAGCTTTGCCTTCTGCGCTCCCATGTCCATGGTAACAGGCTGATGGAATCGAACTGTGACT
GTTGAAGAAAAAGAACGCTTTGAAGAAATCAAAGAGAGACTCCGAGTTCTGCTGGAAAATCAAATTACAC
ATTTCAAGTACTGCTTTCCATTTGGTGCACCTGAAGGTGCTTTGAAAGCTACTCTCACTTTGGAACG
GGTTTTGATGAAAGATATTGTCCTCCAGTACCACAAGAAGAGGTCAAACTGTCATCCGTAATGCCTA
GAGCAGGCTGCTCTAGTCAACTACTCACGCTATCTGAGTATGCCAAAATGAAGGGAAAAAGAGAGAAA
TGTATGAGCATCCTGTCTTCTGCTTGGCCTCCCAAGTGATGGATTAACCATTCAAAATGTAGGCCGCTT
AATCACTCCCGCCAAAAGCTCGAAGACACAATCCGTCTTGTGAACTAGTATCGAAGTACTGCAACAA
AACGAGGAGCACCACGCCGAGGCCTTTGCGTGGTGGTGCAGACTTAATGGTGGAGCATGCGGAGACGTTCC
TGTCACTCTTTCAGTGGACATGGATGCAGCCTTAGAGGTGCAACCCCGAGACAGTGGGACAGTTTCCC
ACTCTCCAGCTGCTGAATGACTTTCTCCGTACAGACTATAATTTGTGCAATGAAAAGTTTCAAAAACAC
CTGCAGGACCTGTTGCGCCCACTTGTGTTAGATATGTGGATCTGATGGAGTCTCCATTGCACAATCTA
TCCACAGGGGCTTTGAGCGGGAGTCAATGGGAGCCAGTCAAGAGTTTAAACCAGTAACCTACCCAATGTGAA
CCTACCCAATGTGAACCTACCCAAGTACCAAATCTACCAGTTAACATCCCTCTAGGCATCCACACAGT
CCCACTTTTTGCGCACCGTCAATGGATGGCTGCTATATGATGCTGATAATGGATCAGGTACATCAGAAG
ATTTGTTCTGAAAACCTGATGCCCTTCACTTTTCACTGACCTACACTGGCCTGAGGAAGAGTTTGG
AAAACACTTAGAGCAGCGGCTAAAACCTGATGGCAAGTGACATGATTGAGTCTGCGTCAAAAAGACCAGG
ATTGCATTTGAAGTTAAGCTGCAAAAACAGTCGATCAACAGATTTTTCGAGTCCACAGTCAATATGCA
CCATGTTAATGTTATGGTTGATGCCAAAGCTCAATCAACAAAACCTTTCAGCATGGAAATGGGCCAAGA
GCATCAATACCATTCAAAAATAGATGAACTAATTGAAGAAACCGTTAAAGAAATGATCACACTTTTGGT
GCAAAGTTTGAACCTATATTGGAAGGCGTACTGGCAAAGTTATCCAGATATGACGAGGGGACTTTGTTTT
CTTCGTTTCTGTCAATCACGGTGAAGGCAGCTTCCAAGTATGTGGACGTGCCTAAACCCGGGATGGACGT
GGCCGACGCTACGTGACTTTCTGCGCCATTCTCAGGATGTCCTTTCGTGATAAGGTCAATGAGGAGATG
TATATAGAAAAGTTATTTGATCAATGGTACAACAGCTCCATGAACATCATCTGCAGTGGCTGACCGACA
GGATGGACCTGCAGCTCCACATTTACCAGCTGAAAACCTGATCAGGATGGTAAAGAAAACCTATAGAGA
TTTCCGATTGCAAGGGTCTGGATTCCACCTTAAACAGCAAGACCTATGAGACCATCCGAAACCGTCTC
ACTGTGGAGGAAGCTACAGCGTCAGTGAAGTGGGGTGGGGCTTACAAGGTATCAGCATGAAGGACAGTG
ATGAGGAAGATGAAGAAGATGAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATGAGTTTAA

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:	<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
MW:	154 kDa
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]

Product images:



Circular map for MR224886