

## Product datasheet for RR211146

### Cadps (NM\_013219) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps (NM_013219) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cadps
Synonyms:	Caps; Caps1; Caps2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211146 representing NM_013219 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGCTGGACCCTTCGTCCAGCGAAGAGGAATCGGATGAGATCCTGGAAGAGGAGAGCGGCAAGGAGGTGC  
TGGGCTCGGCCGCTCCGGAGCGCGCTGTCTCAAGCCGCACCAACGAGGGCTCGGCGGCAGCGCCGG  
CATGGGGGCGAGTGGCGCCGGGGCCGGGGTGGGCGCCGGCGGGTGGGGGTAGCGGCGCGAGCAGCGGC  
GGCGGGGCCGGGGGGCTGCAGCCAGCAGCCGCGCCGGCGGGCGGGCCCTCCAGCCCCAGCCCGTCGG  
TGGTGAGCGAGAAGGAGAAGGAAGATTGGAGCGGCTGCAGAAGGAAGAGGAGGAGGAAGAAGAGGCT  
GCAGCTGTACGTGTTCTGTATGCGCTGCATTGCCTACCCCTTCAACGCCAAGCAGCCACCGACATGGCT  
CGGCGGCCAAGGAAGATCAGCAAACAGCAGCTGCAGACTGTCAAGGACCGATTCCAGGCTTCTCTCAATG  
GGGAGACCCAAATCGTGGCAGATGAAGCCTTTATGAATGCTGTCCAGAGCTACTATGAGGTGTTTCTCAA  
GAGTGACCGTGTGGCCCGCATGGTACAGAGTGGGGGCTGCTCAGCCAACGACTCTCGGGAGGTCTTCAAG  
AAACACATCGAGAAGAGGGTACGCAGCCTACCTGAGATTGATGGCCTCAGCAAGGAGACTGTGCTAAGCT  
CCTGGATGGCTAAGTTTGACGCCATCTACCGTGGTGAGGAGACCCAGGAAGCAGCAAGCCCGGATGAC  
AGCCAGTGCAGTCTGAGTTGATTCTGAGCAAGGAACAGTCTATGAGATGTTCCAGAACATTCTTGGG  
ATCAAGAAATTTGAACATCAACTCCTATATAATGCGTGTGAGTGGACAATCCAGATGAGCAGGCAGCCC  
AGATCAGACGAGAGCTGGACGGAGCTCTCAAATGGCAGACCAAATAGCCAGGGAACGAAATTTCTCAA  
GTTTCGTATCAAAGAAATGAAAATATGTACATCGAGGAGCTGAAGTCTCCGTCAACCTACTCATGGCC  
AACTTGGAGAGCATGCCGGTGTCCAAGGGTGGAGAGTTCAAGCTGCAGAACTGAAACGCAGTCACAACG  
CGTCCATCATTGACATGGGTGAGGAGAGCGAGAACCAGCTGTCCAAGTCCGGATGTCTGTCTCTTCTC  
CTTGGAGGTTGTCATCATGGAAGTCCAAGGCCTTAAGTCTTGGCTCAAACCGAATCGTGTACTGCACA  
ATGGAGGTGGAGGGTGGAGAGAACTTCAGACTGATCAAGCAGAGGCTTCTAAACCAACCTGGGGCACTC  
AAGCGACTTCTTACAACCCAGCGCTGCCAGCTGTTAAAGTAAAGCTATTACAGAGAGCACTGGTGT  
CCTGGCCTTGAAGACAAGGAACCTCGGGCGGGTTATCCTCCATCCCACCCAAACAGCCCCAAACAAATCC  
GAGTGGCACAAAATGACAGTCTCAAAAACCTGCCCGATCAAGACCTCAAATCAAACCTCGTGTCCGAA



[View online »](#)

TGGATAAGCCTCAAACATGAAGCACTCTGGGTACTTATGGACCATTGGTAAGAATGTGTGGAAGAGGTG  
GAAGAAAAGGTTCTTTGTGTTGGTGCAGGTGAGCCAGTACACTTTTGCCATGTGCAGCTATCGAGAAAAG  
AAAGCAGAACCTCAGGAACCTACAGCTGGATGGCTACACCGTGGATTACACCGACCCTCAGCCAGGT  
TGGAGGGTGGCCGAGCCTTCTCAATGCAGTCAAAGAAGGAGACACGGTGATATTTGCCAGTGACGATGA  
GCAAGATCGAATCCTGTGGTCCAAGCTATGTACAGGGCCACCGGCAGTCGCACAAACCTGTGCCCCCT  
ACCCAGGTGCAGAAGCTCAAGCCAAGGGCGAAACGTGCCTCAGCATGGATGCCCCATCTCCCAGTTTT  
ACGCAGATAGAGCTCAAAGCATGGCATGGATGAATTTATCTCGTCCAACCCCTGTAACCTTGACCACGC  
TTCCCTCTTTGAGATGGTACAGCGGTGACTTTGGATCACAGACTAAACGATTCCATTCTTGCCTGGGC  
TGGTTCAGTCCTGGCCAGGTGTTTGTGTAGACGAGTACTGCGCTCGGAATGGAGTCCGAGGATGTCATC  
GGCATCTCTGTTACCTTAGAGACTTGCTGGAACGGGCAGAAAATGGCGCCATGATCGACCCACGCTTCT  
TCATTACAGCTTTGCCTTCTGCGCATCCCATGTCCACGGGAACAGGCCTGATGGAATCGGAACTGTGACT  
GTTGAAGAAAAGAGCGCTTTGAAGAAATCAAAGAGAGACTCCGAGTTCTGCTGGAAAATCAAATTACAC  
ATTTACAGTACTGCTTTCCGTTTGGTCGACCTGAAGGTGCTTTGAAAGCGACTCTCTCACTTTTGAACG  
GGTTTTGATGAAAGATATTGTCACTCCAGTACCCCAAGAGGAGGTCAAACCTGTCATCCGTAATGCCTA  
GAGCAGGTGCTTAGTCAACTACTCTCGCTATCTGAGTATGCCAAAATCGAAGAAAATGTAGGCCGCT  
TAATCACTCCCGCCAAAAGCTCGAAGACACAATCCGCTTTGCTGAACTAGTCATTGAAGTGCTGCAACA  
AAACGAAGAGCACCCAGCCGAGGCCCTTTCGCTGGTGGTGCAGACTTAATGGTGGAGCACCGGGAGACGTT  
CTGTCACTCTTTGCAAGTGGATGGATGCGACATTAGAGGTGCAACCCCCAGACACGTGGGACAGTTTCC  
CACTCTTCCAGCTGCTGAATGACTTTCTCCGTACAGACTATAACTTGTGCAATGGAAAAGTTTACAAAACA  
CCTGCAGGATCTGTTGCGCCCACTCGTTGTTAGATACGTGGATCTGATGGAGTCTCAATTGCACAATCT  
ATCCACAGGGGCTTTGAGCGGGAGTCATGGGAACCAAGTCAATAACGGATCGGGTACATCAGAAGATTTGT  
TCTGAAAACCTTGATGCCCTTTCAGACTTTCATCCGTGACCTACACTGGCCTGAGGAAGAGTTTGGAAAGCA  
CTTAGAGCAGCGGCTAAAACCTAATGGCAAGCGACATGATTGAGTCTGCGTCAAGAGAACCAGGATTGCA  
TTTGAAGTTAAGCTGCAAAAAACCAAGTCGATCAACAGATTTTCGAGTCCACAGTCAATATGCACCATGT  
TTAATGTTATGGTTGATGCCAAAGCTCAATCAACAAAACCTTTCAGCATGGAAAATGGGCCAGGAGCATCA  
ATACCATTCAAAAATAGACGAACTAATTGAAGAAAACCGTTAAGGAAAATGATCACACTCTTGGTGGCAAAG  
TTTGTAACTATATTGGAAGGCGTACTGGCAAAGTTATCCAGATACGACGAGGGGACTTTGTTTTCTTCTGT  
TTCTGTCATTTACGGTGAAGGCGGCATCTAAGTATGTGGACGTACCTAAACCCGGGATGGATGTGGCCGA  
CGCCTACGTGACTTTCTGCGCCACTCTCAGGATGTCTTCTGTGATAAGGTCAATGAGGAGATGTATATA  
GAAAGGTTATTTGATCAATGGTACAACAGCTCCATGAACGTCTCTGCACCTGGCTGACCGACCGGATGG  
ACCTCCAGCTTACATTTATCAGCTGAAAACACTAATTAGGATGGTAAAGAAAACCTACAGAGATTTCCG  
ATTGCAAGGGGCTCGATTCCACCTTAAACAGCAAGACCTATGAGACCATTGAAATCGGCTCACTGTA  
GAGGAACGTACCGCTCCGTGAGTGAGGGAGGGGGCTTGAAGGCATCAGCATGAAGGACAGTGACGAGG  
AAGATGAAGAAGACGAC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

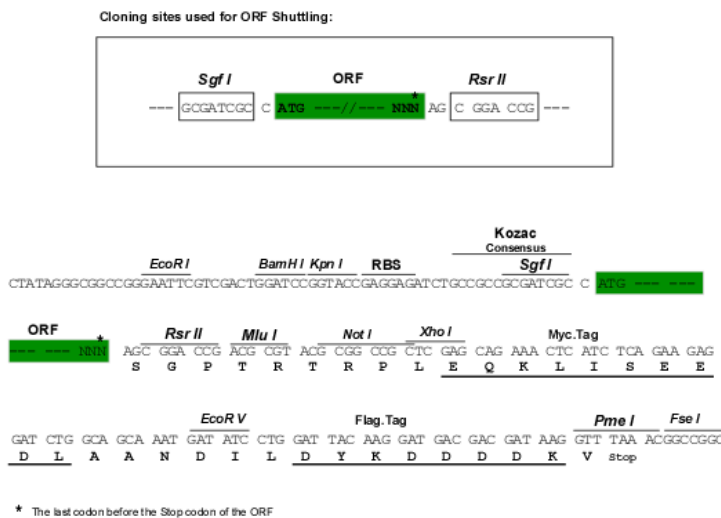
Protein Sequence: >RR211146 representing NM\_013219  
 Red=Cloning site Green=Tags(s)

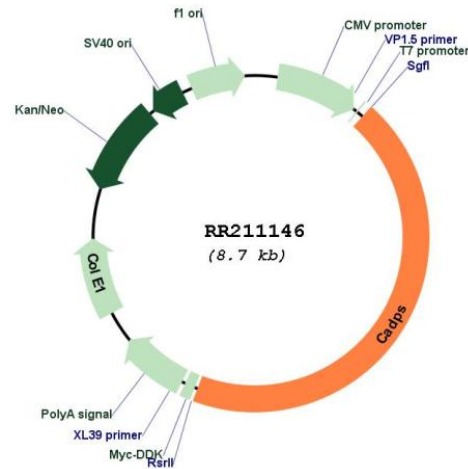
MLDPSSEEESEILEEEESGKEVLGSAASGARLSPSRTNEGSAGSAGMGGSGAGAGVGAGGGGGSGASSG  
 GGAGGLQPSSRAGGGRPSSPSPSVVSEKEKEELERLQKEEEERKKRLQLYVFMRCIAYPFNAKQPTDMA  
 RRPRIKISKQLQTVKDRFQAFNLGETQIVADEAFMNAVQSYEYVFLKSDRVARMVQSGGCSANDSREVFK  
 KHIEKRVRSLEIDGLSKETVLSWMAKFDIYRGEEDPRKQQAARTASAASELILSKEQLYEMFQNILG  
 IKKFEHQLLYNACQLDNPDEQAAQIRRELDGRLQADQIARERKFPKFVSKEMENMYIEELKSSVLLMA  
 NLESMVPVSKGGEFKLQKLKRSHNASIIDMGEESENQLSKSDVLLSFSLEVIVIMEVQGLKSLAPNRIYVCT  
 MEVEGGEKLTQDAEASKPTWGTQGFSTTHALPAVKVKLFTESTGVLALEDKELGRVILHPTPNPKQS  
 EWHKMTVSKNCPDQDLKIKLAVRMDKPQNMKHSGLWTIGKNVWKRWKKRFFVLVQVSQYTFAMCSYREK  
 KAEPQELLQLDGYTVDYDTPQPLEGGRAFFNAVKEGDTVIFASDDEQDRILWVQAMYRATGQSHKPVPP  
 TQVQKLKPRATCLSMAPISQFYADRAQKHGMDEFISSNPCNFHASLFEMVQRLTLDHRLNDSYSCLG  
 WFPSGQVFLDEYCARNGVRGCHRHLCYLRDLLEAENGAMIDPTLLHYSFAFCASHVHGNRPDGI GTVT  
 VEEKERFEEIKERLRVLLLENQITHFYCFPFGRPEGALKATLSLLERVLMKDIVTPVPQEVEVKTVIRKCL  
 EQAALVNSYRLSEYAKIEENVGRLITPAKKLEDTIRLAELVIEVLQQNEEHAEAFAWWSDLMVEHAETF  
 LSLFAVMDAALEVPDPTWDSFPLFQLLNDFLRTDYNLCNGKFKHKLQDLFAPLVVRYVDLMESSIAQS  
 IHRGFERESWEPVNNSGTSEDLFWKLDALQTFIRDLHWPEEEFGKHLEQRLKLMASDMIESCVRTRIA  
 FEVKLQKTSRSTDFRVPQSICTMFNMVDAKAQSTKLCSMEMGQEHQYHSKIDELIEETVKEMITLLVAK  
 FVTILEGLVAKLSRYDEGTLFSSFLSFTVKAASKYVDVPKPGMDVADAYVTFVRHSQDVL RDKVNEEMYI  
 ERLFDQWYNSSMNVICWL TDRMDLQLHIYQLKTLIRMVKKT YRDFRLQGVLDSTLNSKTYETIRNRLTV  
 EERTASVSEGGGLQGISMKDSDEEDEEDD

SGPTRRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_013219

**ORF Size:** 3867 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

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\\_013219.1](#), [NP\\_037351.1](#)  
RefSeq Size: 4926 bp  
RefSeq ORF: 3870 bp  
Locus ID: 26989  
UniProt ID: [Q62717](#)  
Cytogenetics: 15p15  
MW: 146.3 kDa  
Gene Summary: plays a role in calcium ion-dependent regulated exocytosis in neuroendocrine cells [RGD, Feb 2006]