

Product datasheet for **MR229122**

Cadps2 (NM_001252109) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cadps2 (NM_001252109) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cadps2
Synonyms: A230044C21Rik; Caps-2; Caps2; Cpd2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229122 representing NM_001252109
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTCGACCCGTCCTCCAGCGAGGAGGAGTCCGACGAGGGGCTGGAGGAGGAGAGCCGCGAGGTGTTGG
TGGCGCCGGGCGTCTCCAGCGAGCGCCGCCGGCCGGCTCGGAAGGGCGCGGGACGCGCCGGGACG
CTCCGGTGGTGGCAGCGCGCGGAGCGGCCAGACCCGTGAGCCCGAGCCCTCGGTACTCAGCGAGGGG
CGAAATGAGCCCGAGCTGCAGCTGGACGAGGAGCAGGAGCGGCGCATCCGCCTGCAGCTCTACGTCTTCG
TGGTGAGGTGCATCGCGTACCCATTCAACGCCAAGCAGCCACCGACATGGCCCGGAGGCAGCAGAAGCT
TAACAAACAACAATTGCAGTTACTGAAAGAACGGTTCCAGGCCTTCTCAATGGAGAACTCAGATAGTA
GCAGACGAAGCCTTCTGCAATGCCGTCCGGAGTTACTATGAGGTGTTTCTAAAGAGTGACCGTGTGGCCA
GAATGGTTCAAAGTGGAGGATGCTCTGCTAATGATTTTCAGAGAGGTGTTAAGAAGAACATAGAAAAACG
TGTCCGTAGCCTGCCAGAGATAGATGGCCTGAGCAAAGAGACAGTGCTGAGCTCATGGATAGCCAAATAT
GACGCCATTTACAGGGGAGAAGAAGATTTGTGCAAACAGCCGAACAGGATGACCCCTCAGTGCCGTGTCTG
AGCTTATTCTGAGTAAGGAGCAGCTCTAATAAATGTTCCAGCAGATTCTGGGCATTAAGAAGCTGGAACA
CCAGCTACTTTATAACGCATGCCAGCTGGATAACGCTGATGAACAAGCAGCCAGATCAGAAGGGAACTT
GATGGCCGCTGCAGTTGGCAGAGAAGATGGCAAAGGATCTTGCTATAGCCAAGGTAACCTCAAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229122 representing NM_001252109
 Red=Cloning site Green=Tags(s)

MLDPSSEEEESDEGLEEEESREVLVAPGVSRAPPAAREGRRDAPGRSGGGSGGGAARPVSPSPSVLSEG
 RNEPELQLDEEQERRIRLQLYVFVVRCAIYFPNAKOPTMARRQQLNKQQLQLLKERFQAFNGETQIV
 ADEAFCNVRSYYEVFLKSDRVARMVQSGGCSANDFREVFKKNIKRVRSLEIDGLSKETVLSWIAKY
 DAIYRGEEDLCKQPNRMTLSAVSELILSKEQLYEMFQQILGIKKLEHQLLYNACQLDNAEQAAQIRREL
 DGRLQLAEKMAKDLAIKGNLKE

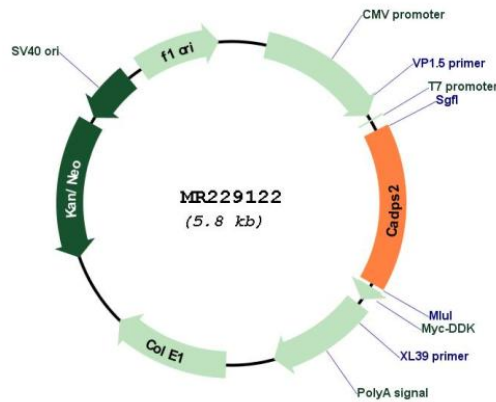
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001252109

ORF Size: 909 bp

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_001252109.1 , NP_001239038.1
RefSeq Size:	1512 bp
RefSeq ORF:	912 bp
Locus ID:	320405
Cytogenetics:	6 A3.1
MW:	34.6 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 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]