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Product datasheet for MC226911

Cadps2 (NM_001252109) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps2 (NM_001252109) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadps2
Synonyms:	A230044C21Rik; Caps-2; Caps2; Cpd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC226911 representing NM_001252109
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTCGACCCGTCTTCCAGCGAGGAGGAGTCGGACGAGGGGCTGGAGGAGGAGAGCCGCGAGGTGTTGG
TGGCGCCGGGCGTCTCCCAGCGAGCGCCGCCGGCCGCGGCTCGGGAAGGGCGGCGGGACGCGCCGGGACG
CTCCGGTGGTGGCAGCGGCGGCGGAGCGGCCAGACCCGTGAGCCCGAGCCCCTCGGTACTCAGCGAGGGG
CGAAATGAGCCCGAGCTGCAGCTGGACGAGGAGCAGGAGCGGCGCATCCGCCTGCAGCTCTACGTCTTCG
TGGTGAGGTGCATCGCGTACCCATTCAACGCCAAGCAGCCCACCGACATGGCCCGGAGGCAGCAGAAGCT
TAACAAACAACAATTGCAGTTACTGAAAGAACGGTTCCAGGCCTTTCTCAATGGAGAAACTCAGATAGTA
GCAGACGAAGCCTTCTGCAATGCCGTCCGGAGTTACTATGAGGTGTTTCTAAAGAGTGACCGTGTGGCCA
GAATGGTTCAAAGTGGAGGATGCTCTGCTAATGATTTCAGAGAGGTGTTTAAGAAGAACATAGAAAAACG
TGTCCGTAGCCTGCCAGAGATAGATGGCCTGAGCAAAGAGACAGTGCTGAGCTCATGGATAGCCAAATAT
GACGCCATTTACAGGGGAGAAGAAGATTTGTGCAAACAGCCGAACAGGATGACCCTCAGTGCCGTGTCTG
AGCTTATTCTGAGTAAGGAGCAGCTCTATGAAATGTTCCAGCAGATTCTGGGCATTAAGAAGCTGGAACA
CCAGCTACTTTATAACGCATGCCAGCTGGATAACGCTGATGAACAAGCAGCCCAGATCAGAAGGGAACTT
GATGGCCGCCTGCAGTTGGCAGAGAAGATGGCAAAGGATCTTGCTATAGCCAAGGGTAACCTCAAAGAGT
AA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001252109

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Insert Size:	912 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001252109.1, NP_001239038.1
RefSeq Size:	1512 bp
RefSeq ORF:	912 bp
Locus ID:	320405
Cytogenetics:	6 A3.1
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] Transcript Variant: This variant (6) lacks several exons in the central and 3' coding regions, but includes an alternate 3' exon and thus differs in its 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (6, also known as CAPS2f) has a distinct and significantly shorter C-terminus, compared to isoform 1.

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