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Product datasheet for MC229524

Cadps2 (NM_001252110) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cadps2 (NM_001252110) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cadps2
Synonyms:	A230044C21Rik; Caps-2; Caps2; Cpd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229524 representing NM_001252110 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTCGACCCGTCTTCCAGCGAGGAGGAGTCGGACGAGGGGCTGGAGGAGGAGAGCCGCGAGGTGTTGG TGGCGCCGGGCGTCTCCCAGCGAGCGCCGCCGGCCGCGGCTCGGGAAGGGCGGCGGGACGCGCCGGGACG CTCCGGTGGTGGCAGCGGCGGCGGAGCGGCCAGACCCGTGAGCCCGAGCCCCTCGGTACTCAGCGAGGGG CGAAATGAGCCCGAGCTGCAGCTGGACGAGGAGCAGGAGCGGCGCATCCGCCTGCAGCTCTACGTCTTCG TGGTGAGGTGCATCGCGTACCCATTCAACGCCAAGCAGCCCACCGACATGGCCCGGAGGCAGCAGAAGCT TAACAAACAACAATTGCAGTTACTGAAAGAACGGTTCCAGGCCTTTCTCAATGGAGAAACTCAGATAGTA GCAGACGAAGCCTTCTGCAATGCCGTCCGGAGTTACTATGAGGTGTTTCTAAAGAGTGACCGTGTGGCCA GAATGGTTCAAAGTGGAGGATGCTCTGCTAATGATTTCAGAGAGGTGTTTAAGAAGAACATAGAAAAACG TGTCCGTAGCCTGCCAGAGATAGATGGCCTGAGCAAAGAGACAGTGCTGAGCTCATGGATAGCCAAATAT GACGCCATTTACAGGGGAGAAGAAGATTTGTGCAAACAGCCGAACAGGATGACCCTCAGTGCCGTGTCTG AGCTTATTCTGAGTAAGGAGCAGCTCTATGAAATGTTCCAGCAGATTCTGGGCATTAAGAAGCTGGAACA CCAGCTACTTTATAACGCATGCCAGCTGGATAACGCTGATGAACAAGCAGCCCAGATCAGAAGGGAACTT GATGGCCGCCTGCAGTTGGCAGAGAAGATGGCAAAGGAGAGAAGATTCCCCAGATTCATCTCGAAAGAAA TGGAGAGTATGTACATTGAAGAGCTGCGAGCCTCCGTGAACCTGCTAATGGCCAATTTAGAAAGTCTTCC AGTTTCAAAAGGTGGCCCGGAATTTAAATTACAAAAATTAAAGCGTTCGCAGAACTCTGCGTTTCTGGAC CTGGGAGATGAGAACGAGATCCAGCTGTCCAAGTCGGATGTGGTGTTGTCGTTCACGTTAGAGATTGTCA TCATGGAAGTGCAAGGACTGAAATCTGTGGCTCCCAATCGAATCGTTTACTGCACAATGGAGGTGGAAGG AGGAGAAAAACTCCAGACAGACCAGGCTGAAGCATCAAGGCCACAATGGGGGACCCAAGGAGATTTCAAC ACTACCCACCCTCGGCCTGTCGTCAAAGTGAAGCTCTTCACAGAAAGCACGGGGGTCCTGGCCCTGGAAG ACAAGGAACTGGGCAGGGTGGTGTTATACCCAACTTCTAATAGCTCCAAGTCAGCAGAGTTACACCGAAT GACAGTACCCAAGAACAGTCAGGACTCGGACCTAAAGATCAAATTGGCAGTGCGCATGGATAAACCAGCA CACATGAAGCATAGTGGGTACCTGTATGCCCTTGGACAGAAGGTTTGGAAAAGATGGAAAAAGCGTTACT

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TTGTTCTCGTTCAGGTTAGCCAGTACACCTTTGCTATGTGCAGCTATAGAGAAAAAAAGTCGGAACCACA
GGAATTAATGCAACTGGAAGGATACACAGTGGATTACACAGACCCTCACCCAGGCCTTCAGGGTGGTCAG
GTGTTCTTCAACGCTGTTAAAGAGGGAGATACTGTGATCTTTGCCAGTGATGATGAACAGGACAGAATAT
TATGGGTACAAGCCATGTACAGGGCTACAGGCCAGTCTTACAAACCAGTTCCTGCAGTCCAAAGCCAGAA
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AGAAATGACACACTTTTGTGTAATGGAAAATTCCACAAGCACTTGCAAGAAATCTTTGTGCCCTTGGTTG
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GCAGCCTGTCAACAATGGCTCAACAACTTCCGAGGATCTGTTCTGGAAGCTCGATGCGCTGCAAATGTTC
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TAGATGATTTGATTGACAACACCGTGAAAGAAATCATTGCACTGCTGGTTTCAAAGTTTGTTTCAGTGTT
GGAAGGGGTGCTTTCGAAGTTGTCGAGGTATGACGAAGGCACTTTCTTCTCATCCATCCTGTCCTTCACT
GTGAAAGCAGCTGCAAAATATGTGGATGTCCCTAAACCAGGAATGGATCTGGCAGACACCTACATTATGT
TTGTCCGGCAAAACCAGGATATTCTTCGAGAAAAAGTCAATGAAGAGATGTACATAGAAAAGTTGTTTGA
TCAATGGTACAGCAATTCCATGAAAGTCATTTGTGTGTGGCTGGCTGACAGACTAGACCTCCAGCTTCAT
ATTTACCAACTGAAGACGCTCATCAAGATTGTGAAGAAAACCTATAGGGATTTCCGATTGCAGGGTGTGT
TGGAGGGGACGCTGAACAGTAAGACATATGATACTCTGCACAGACGTCTAACTGTAGAGGAGGCCACAGC
CTCTGTCTCAGAAGGCGGAGGACTTCAGGGCATTACCATGAAGGACAGTGATGAGGAGGAAGAAGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001252110

Insert Size: 3780 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_001252110.1, NP_001239039.1
RefSeq Size:	4834 bp
RefSeq ORF:	3780 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 (7) lacks three in-frame exons in the central coding region, but includes an additional in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (7) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.