

Product datasheet for MC202432

Ctnna2 (NM_009819) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctnna2 (NM_009819) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctnna2
Synonyms:	Al481747; Catna; Catna2; cdf; chp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC079648 sequence for NM_009819
GGAGACCCGGGCGGAGCGGGCGGCACCCGACCTCGGCCAGAAGCAGCTGCAGCAGCTGCCCTAGTCCCCA
CGCCCGCTCTCCAGCAGCTTCTGTTCATCCGCGCCAGCTGCTGCAGACAGAGGACGAGGAGGAGGAGGC
GAGAAACTCCACCGACCCACAGAGAGGGCCGTGAGACCAGTTGTTAGCATTCAAGTCAGGAGGCTCATAG
CTCCAGTGCCAGGAGTTTTACTATGACAGATATTCACTCAAGCTACACATACACAGGGAGCATGACTTC
GGCAACTTCACCTATTATTTTAAATGGGATCCCAAAAGTTTGGAAATCCGGACACTCACAGTGGAAAGA
CTATTGGAGCCACTTGTGACACAGGTGACAACACTTGTCAACACAAGCAACAAAGGTCCTGCTGGTAAAA
AGAAAGGGAGGTCAAAGAAAGCCCATGTCTGGCAGCATCTGTAGAACAAGCTACTCAGAACTTCCTGGA
AAAGGGTGAACAGATCGCTAAGGAGAGCCAAGACCTCAAAGAAGAGTTAGTGGCTGCTGTAGAGGATGTG
CGGAAGCAAGGTGAGACAATGCGGATTGCCTCCTCAGAGTTGCGAGATGACCCTTGCTCTTCTGTCAAGC
GTGGCACCATGGTGCCTGACGACGCGGCTCTGCTATCGGCTGTGACACGCTTGCTCATCCTGGCCGACAT
GGCAGATGTCATGAGGCTTTTATCGCATCTGAAAATTGTGAGGAGGCCTTGGAAGCAGTCAAAAATGCC
ACAAATGAACAAGACCTTGCAAACCGATTTAAAGAGTTTGGGAAAAGAGATGGTGAAGTGAAGTATGTAG
CAGCAAGACGGCAGCAGGAGCTCAAGGACCCTCACTGTAGGGATGAGATGGCTGCAGCCCGTGGAGCCCT
GAAGAAGAATGCCACCATGCTGTACACAGCCTCCCAAGCCTTCTCCGGCATCCAGATGTTGCTGTACA
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CTGCTCGGCCACAGAGTAAAGTTGCTCAGGACAACATGGATGTCTTCAAAGACCAGTGGGAAAAGCAAGT
CCGTGTGCTCACTGAGGCAGTGGATGACATCACCTCTGTGGATGACTTCTCTGTCTCAGAAAACCAT



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ATCTTGGAGGATGTGAACAAATGTGTGATTGCCCTGCAAGAGGGAGATGTGGACACACTGGATCGCACAG
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CCTTCTATTTCTTTCTTAACTTGAACCTGACTTTGCTAGACATAGAAGGCTCAGTGGTGAACGT
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GTATCTAATATACCATTGTATTCAGTACACAAAATAAACACATTTAATCTTGAIAAAAAAAAAAAAAAAAA AA
    
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Restriction Sites:

Ascl-NotI

ACCN:

NM_009819

Insert Size:

2859 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).

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:	<u>BC079648</u> , <u>AAH79648</u>
RefSeq Size:	4062 bp
RefSeq ORF:	2859 bp
Locus ID:	12386
UniProt ID:	<u>Q61301</u>
Cytogenetics:	6 33.54 cM
Gene Summary:	<p>May function as a linker between cadherin adhesion receptors and the cytoskeleton to regulate cell-cell adhesion and differentiation in the nervous system (PubMed:12123610, PubMed:15034585). Required for proper regulation of cortical neuronal migration and neurite growth. It acts as negative regulator of Arp2/3 complex activity and Arp2/3-mediated actin polymerization. It thereby suppresses excessive actin branching which would impair neurite growth and stability (By similarity). Regulates morphological plasticity of synapses and cerebellar and hippocampal lamination during development. Functions in the control of startle modulation (PubMed:12089526).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 3. Variants 2 and 3 both encode isoform 2.</p>