

Product datasheet for **MC222501**

Ctnna1 (NM_009818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctnna1 (NM_009818) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ctnna1
Synonyms:	2010010M04Rik; AA517462; AI988031; Catna1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222501 representing NM_009818
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTGCCGTCCACGCAGGCAACATAAACTTCAAATGGGACCCAAAAGTCTGGAGATTAGGACTCTGG
 CTGTTGAAAGACTGTTGGAGCCTTTGTTACACAGGTTACAACCCTGGTAAACACCAATAGTAAAGGGCC
 GTCTAATAAAAAGAGAGGCCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAG
 AATTTCTTGAAAAGGGGATAAAATTGCAAAAGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGTTGCTG
 TAGAAGATGTTGAAAACAAGGAGATTTGATGAAGAGCGCTGCTGGGAGTTTGCAGATGATCCATGCTC
 TTCTGTGAAGCGAGGCAACATGGTCCGGGCAGCTCGAGCTTTGCTCTGCGCGTACCCGGCTGCTGATT
 CTGGCTGACATGGCAGATGTCTACAAATTAAGTTTCTGCTGAAAGTTGTGAAGATGGTATATTGAAAC
 TGAGGAATGCTGGCAATGAACAAGACTTAGGGATACAGTACAAAGCTCTGAAACCAGAAGTAGATAAGCT
 GAACATCATGGCAGCAAAAAGACAACAGGAAGTAAAAGATGTGGGCAATCGTGATCAGATGGCTGCAGCT
 AGAGGAATCCTGCAGAAAATGTTCCAATCCTCTATACTGCATCCCAGGCATGTCTACAACACCCTGATG
 TTGCAGCCTATAAGGCCAACCGGACTTGATATACAAGCAGCTGCAGCAGGCCGTACAGGAATTTCTAA
 TGCAGCCCAGGCTACTGCATCAGATGATGCTGCCAGCACCAGGGTGGCAGTGGCGGAGAGCTGGCATA
 GCTCTCAACAACCTTTGATAAACAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCTTTAGGCCGT
 CCCTGGAGGAGCGCTGGAAAGCATTATTAGTGGGGCTGCCCTGATGGCTGACTCATCTGCACACGTGA
 TGACCGTCCGGAGCGCATTGTGGCAGAGTGAATGCTGTCCGCCAGGCTCTACAGGACCTGCTCTCAGAA
 TACATGGGCAACGCTGGACGTAAGAAAAGAGTGCAGTCAACTCTGCAATAGATAAAATGACCAAGA
 AGACAGGGACTTGCCTAGACAGCTTCGCAAGCTGTCATGGACCAGTATCAGATTCTTTCTGGAGAG
 CAATGTCCCTCTATTAGTACTGATTGAAGCTGCAAGAATGGAATGAGAAAAGAAGTTAAGGAATATGCC
 CAAGTTTTTCGTGAACATGCCAACAACCTGATTGAGGTTGCCAACCTGGCCTGTTCAATCTCCAACAATG
 AAGAAGCGTGAAGCTTGTCCGAATGTCTGCAAGCCAGTTAGAAGCGCTGTGCTCAGGTTATCAATGC
 TGCATTGGCGTTGGCAGCAAAGCCGAGAGTAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAGCAA
 TGGGAAAAGCAAGTCCGTGTTCTCACAGATGCTGTTGATGACATTACTTCCATCGATGACTTCTGGCTG
 TCTCAGAGAACCACATTTAGAAGATGTGAACAAGTGTGTTATTGCTCTCCAAGAGAAAGACGTGGATGG
 GCTGGATCGACTGCCGGTGCCATCCGAGGCCGGCAGCCGAGTCATTCATGTAGTCACCTCAGAGATG
 GACAACACGAGCCAGGAGTTTACACAGAGAAGGTTCTGGAAGCCACCAAGCTCCTCTCCAACACAGTCA
 TGCCCGCTTCACTGAGCAGGTGGAAGCAGCTGTGGAAGCCCTCAGCTCGGACCCGGCCAGCCATGGA
 TGAGAATGAGTTCATCGACGCCTCCCGTCTGGTGTACGACGGCATCCGGGACATCCGGAAAGCAGTGCTG
 ATGATCAGGACCCCGAGGAGTTGGACGACTCTGACTTCGAGACTGAAGACTTTGATGTCAGAAGCAGGA
 CCAGTGTCCAGACAGAAGATGACCAGCTGATAGCTGGCCAGAGCGCCCGGGCGATCATGGCTCAGCTTCC
 TCAGGAGCAAAAAGCAAGATTGCGAACAAGGTGGCCAGTTTCCAGGAAGAGAAGAGCAAGCTGGATGCT
 GAAGTGTCCAAGTGGGATGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATCATGA
 TGGAGATGACCGACTTCACCCGAGGCAAGGTCCACTCAAAAACACCTCTGACGTGATCAGTGTGCCAA
 GAAAATTGCGGAGCGGGATCCAGGATGGACAAGCTCGGCCGACCATCGCAGACCATTGCCAGACTCG
 GCATGCAAGCAGGACCTGCTGGCTACCTTCAGCGCATCGCTCTCTACTGCCACCAGCTCAACATCTGCA
 GCAAAGTCAAGGCTGAAGTACAGAACCTTGGTGGAGAGCTGGTCTCTCTGGGGTGGACAGCGCCATGTC
 CCTGATCCAGGCGGCCAAGAACTTGATGAATGCTGTTGTGCAGACAGTGAAGGCGTCTCAGTGGCTTCC
 ACCAAATACCAGAAGTACAGGGGATGGCTTCTTGAACCTTCTGCTGTGTCATGGAAGATGAAGGCC
 CTGAGAAGAAGCCGTTGGTGAAGAGAGAGAAGCAGGATGAGACGCAGACCAAGATTAACGAGCTTCTCA
 GAAGAAACACGTGAACCCAGTGCAGGCCCTGAGCGAGTTCAAAGCCATGGACAGCAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_009818

Insert Size:	2721 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:	NM_009818.1 , NP_033948.1
RefSeq Size:	3713 bp
RefSeq ORF:	2721 bp
Locus ID:	12385
UniProt ID:	P26231
Cytogenetics:	18 18.89 cM
Gene Summary:	Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Can associate with both E- and N-cadherins. Originally believed to be a stable component of E-cadherin/catenin adhesion complexes and to mediate the linkage of cadherins to the actin cytoskeleton at adherens junctions. In contrast, cortical actin was found to be much more dynamic than E-cadherin/catenin complexes and CTNNA1 was shown not to bind to F-actin when assembled in the complex suggesting a different linkage between actin and adherens junctions components. The homodimeric form may regulate actin filament assembly and inhibit actin branching by competing with the Arp2/3 complex for binding to actin filaments. May play a crucial role in cell differentiation.[UniProtKB/Swiss-Prot Function]