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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTGCCGTCCACGCAGGCAACATAAACTTCAAATGGGACCCCAAAAGTCTGGAGATTAGGACTCTGG
CTGTTGAAAGACTGTTGGAGCCTCTTGTTACACAGGTTACAACCCTGGTAAACACCAATAGTAAAGGGCC
GTCTAATAAAAAGAGAGGCCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAG
AATTTCTTGGAAAAGGGGGATAAAATTGCAAAAGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGTTGCTG
TAGAAGATGTTCGAAAACAAGGAGATTTGATGAAGAGCGCTGCTGGGGAGTTTGCAGATGATCCATGCTC
TTCTGTGAAGCGAGGCAACATGGTCCGGGCAGCTCGAGCTTTGCTCTCTGCCGTCACCCGGCTGCTGATT
CTGGCTGACATGGCAGATGTCTACAAATTACTTGTTCAGCTGAAAGTTGTGGAAGATGGTATATTGAAAC
TGAGGAATGCTGGCAATGAACAAGACTTAGGGATACAGTACAAAGCTCTGAAACCAGAAGTAGATAAGCT
GAACATCATGGCAGCAAAAAGACAACAGGAACTAAAAGATGTGGGCAATCGTGATCAGATGGCTGCAGCT
AGAGGAATCCTGCAGAAAAATGTTCCAATCCTCTATACTGCATCCCAGGCATGTCTACAACACCCTGATG
TTGCAGCCTATAAGGCCAACCGGGACTTGATATACAAGCAGCTGCAGCAGGCCGTCACAGGAATTTCTAA
TGCAGCCCAGGCTACTGCATCAGATGATGCTGCCCAGCACCAGGGTGGCAGTGGCGGAGAGCTGGCATAC
GCTCTCAACAACTTTGATAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCTTTAGGCCGT
CCCTGGAGGAGCGCCTGGAAAGCATTATTAGTGGGGCTGCCCTGATGGCTGACTCATCCTGCACACGTGA
TGACCGTCGGGAGCGCATTGTGGCAGAGTGTAATGCTGTCCGCCAGGCTCTACAGGACCTGCTCTCAGAA
TACATGGGCAACGCTGGACGTAAAGAAAGAAGTGATGCACTCAACTCTGCAATAGATAAAATGACCAAGA
AGACCAGGGACTTGCGTAGACAGCTTCGCAAAGCTGTCATGGACCACGTATCAGATTCTTTCCTGGAGAC
CAATGTCCCTCTATTAGTACTGATTGAAGCTGCAAAGAATGGAAATGAGAAAGAAGTTAAGGAATATGCC
CAAGTTTTTCGTGAACATGCCAACAAACTGATTGAGGTTGCCAACCTGGCCTGTTCAATCTCCAACAATG
AAGAAGGCGTGAAGCTTGTCCGAATGTCTGCAAGCCAGTTAGAAGCGCTGTGTCCTCAGGTTATCAATGC
TGCATTGGCGTTGGCAGCAAAGCCGCAGAGTAAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAGCAA
TGGGAAAAGCAAGTCCGTGTTCTCACAGATGCTGTTGATGACATTACTTCCATCGATGACTTCTTGGCTG
TCTCAGAGAACCACATTTTAGAAGATGTGAACAAGTGTGTTATTGCTCTCCAAGAGAAAGACGTGGATGG
GCTGGATCGCACTGCCGGTGCCATCCGAGGCCGGGCAGCCCGAGTCATTCATGTAGTCACCTCAGAGATG
GACAACTACGAGCCAGGAGTTTACACAGAGAAGGTTCTGGAAGCCACCAAGCTCCTCTCCAACACAGTCA
TGCCGCGCTTCACTGAGCAGGTGGAAGCAGCTGTGGAAGCCCTCAGCTCGGACCCGGCCCAGCCCATGGA
TGAGAATGAGTTCATCGACGCCTCCCGTCTGGTGTACGACGGCATCCGGGACATCCGGAAAGCAGTGCTG
ATGATCAGGACCCCCGAGGAGTTGGACGACTCTGACTTCGAGACTGAAGACTTTGATGTCAGAAGCAGGA
CCAGTGTCCAGACAGAAGATGACCAGCTGATAGCTGGCCAGAGCGCCCGGGCGATCATGGCTCAGCTTCC
TCAGGAGCAAAAAGCAAAGATTGCAGAACAGGTGGCCAGTTTCCAGGAAGAGAAGAGCAAGCTGGATGCT
GAAGTGTCCAAGTGGGATGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATCATGA
TGGAGATGACCGACTTCACCCGAGGCAAAGGTCCACTCAAAAACACCTCTGACGTGATCAGTGCTGCCAA
GAAAATTGCGGAGGCGGGATCCAGGATGGACAAGCTCGGCCGGACCATCGCAGACCATTGCCCAGACTCG
GCATGCAAGCAGGACCTGCTGGCCTACCTTCAGCGCATCGCTCTCTACTGCCACCAGCTCAACATCTGCA
GCAAAGTCAAGGCTGAAGTACAGAACCTTGGTGGAGAGCTGGTCGTCTCTGGGGTGGACAGCGCCATGTC
CCTGATCCAGGCGGCCAAGAACTTGATGAATGCTGTTGTGCAGACAGTGAAGGCGTCCTACGTGGCTTCC
ACCAAATACCAGAAGTCACAGGGGATGGCTTCCTTGAACCTTCCTGCTGTGTCATGGAAGATGAAGGCCC
CTGAGAAGAAGCCGTTGGTGAAGAGAGAGAAGCAGGATGAGACGCAGACCAAGATTAAACGAGCTTCTCA
GAAGAAACACGTGAACCCAGTGCAGGCCCTGAGCGAGTTCAAAGCCATGGACAGCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_009818

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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:	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]

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