

Product datasheet for **MR211134**

Ctnna1 (NM_009818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctnna1 (NM_009818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR211134 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGCCGTCCACGCAGGCAACATAAATTCAAATGGGACCCAAAAGTCTGGAGATTAGGACTCTGG
 CTGTTGAAAGACTGTTGGAGCCTTTGTTACACAGGTTACAACCCTGGTAACCACCAATAGTAAAGGGCC
 GTCTAATAAAAAGAGAGGCCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAG
 AATTTCTTGAAAAGGGGATAAAATTGCAAAAGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGTTGCTG
 TAGAAGATGTTTCGAAAACAAGGAGATTTGATGAAGAGCGCTGCTGGGAGTTTGCAGATGATCCATGCTC
 TTCTGTGAAGCGAGGCAACATGGTCCGGGCAGCTCGAGCTTTGCTCTCGCCGTACCCGGCTGCTGATT
 CTGGCTGACATGGCAGATGTCTACAAATTAAGTTTCTGCTGAAAGTTGTGAAGATGGTATATTGAAAC
 TGAGGAATGCTGGCAATGAACAAGACTTAGGGATACAGTACAAAGCTCTGAAACCAGAAGTAGATAAGCT
 GAACATCATGGCAGCAAAAAGACAACAGGAAGTAAAAGATGTGGGCAATCGTGATCAGATGGCTGCAGCT
 AGAGGAATCCTGCAGAAAATGTTCCAATCCTCTATACTGCATCCCAGGCATGTCTACAACACCCTGATG
 TTGCAGCCTATAAGGCCAACCGGACTTGATATACAAGCAGCTGCAGCAGGCCGTACAGGAATTTCTAA
 TGCAGCCCAGGCTACTGCATCAGATGATGCTGCCAGCACCAGGGTGGCAGTGGCGGAGAGCTGGCATA
 GCTCTCAACAACCTTTGATAAACAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCTTTAGGCCGT
 CCCTGGAGGAGCGCTGGAAAGCATTATTAGTGGGGCTGCCCTGATGGCTGACTCATCTGCACACGTGA
 TGACCGTCCGGAGCGCATTGTGGCAGAGTGAATGCTGTCCGCCAGGCTCTACAGGACCTGCTCTCAGAA
 TACATGGGCAACGCTGGACGTAAGAAAGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
 AGACGGGACTTGCCTAGACGCTTCGCAAGCTGTCATGGACCAGTATCAGATTCTTTCTCGGAGAG
 CAATGTCCCTCTATTAGTACTGATTGAAGCTGCAAGAATGGAATGAGAAAGAAGTTAAGGAATATGCC
 CAAGTTTTTCGTGAACATGCCAACAACCTGATTGAGGTTGCCAACCTGGCCTGTTCAATCTCCAACAATG
 AAGAAGCGTGAAGCTTGTCCGAATGTCTGCAAGCCAGTTAGAAGCGCTGTGCTCAGGTTATCAATGC
 TGCATTGGCGTTGGCAGCAAAGCCGAGAGTAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAGCAA
 TGGGAAAAGCAAGTCCGTGTTCTCACAGATGCTGTTGATGACATTACTTCCATCGATGACTTCTTGGCTG
 TCTCAGAGAACCACATTTTAGAAGATGTGAACAAGTGTGTTATTGCTCTCCAAGAGAAAGACGTGGATGG
 GCTGGATCGACTGCCGGTGCCATCCGAGGCCGGCAGCCGAGTCATTATGTAGTACCTCAGAGATG
 GACAACACGAGCCAGGAGTTTACACAGAGAAGGTTCTGGAAGCCACCAAGCTCCTCTCCAACACAGTCA
 TGCCCGCTTCACTGAGCAGGTGGAAGCAGCTGTGGAAGCCCTCAGCTCGGACCCGGCCAGCCATGGA
 TGAGAATGAGTTCATCGACGCTCCCGTCTGGTGTACGACGGCATCCGGGACATCCGGAAAGCAGTGGT
 ATGATCAGGACCCCGAGGAGTTGGACGACTCTGACTTCGAGACTGAAGACTTTGATGTCAGAAGCAGGA
 CCAGTGTCCAGACAGAAGATGACCAGCTGATAGCTGGCCAGAGCGCCCGGGCGATCATGGCTCAGCTTCC
 TCAGGAGCAAAAAGCAAAGATTGCAAGACAGGTGGCCAGTTTCCAGGAAGAGAAGAGCAAGCTGGATGCT
 GAAGTGTCCAAGTGGGATGACAGTGGCAATGACATCACTGTGCTGGCCAAGCAGATGTGCATGATCATGA
 TGGAGATGACCGACTTCAACCGAGGCAAGGTCCACTCAAAAACACCTCTGACGTGATCAGTGGCTGCCAA
 GAAAATTGCGGAGCGGGATCCAGGATGGACAAGCTCGGCCGACCATCGCAGACCATTGCCAGACTCG
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 GCAAAGTCAAGGCTGAAGTACAGAACCTTGGTGGAGAGCTGGTCTCTCTGGGGTGGACAGCGCCATGTC
 CCTGATCCAGGCGGCCAAGAACTTGATGAATGCTGTTGTGCAGACAGTGAAGGCGTCTACGTGGCTTCC
 ACCAAATACCAGAAGTACAGGGGATGGCTTCTTGAACCTTCTGCTGTGTCATGGAAGATGAAGGCC
 CTGAGAAGAAGCCGTTGGTGAAGAGAGAGAAGCAGGATGAGACGCAGACCAAGATTAACAGACTTCTCA
 GAAGAAACACGTGAACCCAGTGCAGGCCCTGAGCGAGTCAAAGCCATGGACAGCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211134 protein sequence
 Red=Cloning site Green=Tags(s)

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVTTNSKGPSNKKRGRSKKAHVLAASVEQATE
 NFLLEKGDKIAKESQFLKEELVVAVEDVRKQGDLMKSAAGEFADDPCCSSVKRGNMVRARALLSAVTRLLI
 LADMADVYKLLVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARKQEQELKDVGNRDQMAAA
 RGILQKNVPILYASQAQLQHPDVAAYKANRDLIYKQLQQAVTGISNAAQATASDDAAHQGGSGGELAY
 ALNNFDKQIIVDPLSFSEERFRPSLEERLESIIISGAALMADSSCTRDRRERIVAECAVNRQALQDLLSE
 YMGNAGRKERSDALNSAIDKMTKKTRDLRRQLRKAVMDHVSDSFLETNPVLLVLEAAKNGNEKEVKEYA
 QVFREHANKLIEVANLACISNNEEGVKLVMSASQLEALCPQVINAALALAAKPQSKLAQENMDLFKEQ
 WEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNCVIALQEKDVDGLDRTAGAIRGRAARVIHVVTSEM
 DNYEPGVYTEKVLKLLSNTVMPRFEQVEAAVEALSSDPAQPMDEFIDASRLVYDGIKIRKAVL
 MIRTPEELDDSDFETEDFVRSRTSVQTEDDQLIAGQSARAIMAQLPQEQKAKIAEQVASFQEEKSKLDA
 EVSKWDDSGNDITVLAKQCMIMMEMTDFTRGKGPLKNTSDVISAAKKIAEAGSRMDKLGRTIADHCPDS
 VCKQDLLAYLQRIALYCHQLNICSKVKAEVQNLGGELVSGVDSAMSLIQAAKNLMNAVVTVKASYVAS
 TKYQKSQGMASLNLPAVSWKMAPEKKPLVKREKQDETQTKIKRASQKKHVNPVQALSEFKAMDSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

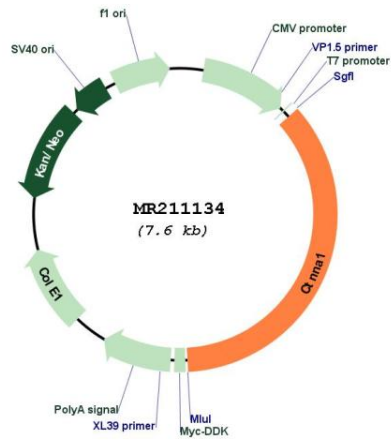
Cloning Scheme:



ACCN: NM_009818

ORF Size:	2721 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	100.1 kDa
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]

Product images:



Circular map for MR211134