

## Product datasheet for **RR201059**

### **Ctnna2 (NM\_001106598) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ctnna2 (NM_001106598) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctnna2
Synonyms:	Catna2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR201059 representing NM\_001106598  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACTTCGGCAACCTCACCTATCATTTTTAAAATGGGATCCCAAAGTTTGGAAATCCGGACACTCACGG  
 TGGAAAGACTGTTGGAGCCACTTGAACACAGGTGACAACGCTTGTCAACACAAGCAACAAAGGTCGGTC  
 TGGTAAAAAGAAAGGGAGGTCAAAGAAAGCCCATGTGCTGGCAGCATCTGTAGAACAAGCTACTCAGAAT  
 TTCCTTAAAAAGGGTGGAGAGTGCCTAAGGAGAGCCAGGACCTCAAAGAAGAGTTGGTGCTGTGTAG  
 AGGATGTGCGGAAGCAAGGTGAGACTATGCGGATCGCCTCCTCAGAGTTTGTGACGACCCTTGCTCTTC  
 GGTCAAGCGTGGCACAATGGTGCGGCAGCACGGGCTCTGCTATCGGCTGTGACACGCTTGCTCATTCTG  
 GCTGACATGGCAGATGTCATGAGACTTTTATCGCATCTGAAAATTGTGAGGAGGCCTTGGAAAGCTGCA  
 AAAACGCTACAAATGAACAAGACCTTGCAAACCGCTTTAAAGAGTTTGGAAAAGAGATGGTAAAAGTAA  
 CTATGTAGCGGCAAGACGACAACAGGAGCTGAAGGACCTCACTGTAGGGATGAAATGGCTGCTGCCGA  
 GGAGCCCTCAAGAAGAAGCCACCATGTGTACACAGCCTCCAAAGCCTTCTCCGCCACCCAGATGTGCG  
 CAGCTACAAGAGCCAACCGAGATTATGTATTCAAACAAGTCCAGGAGGCCATAGCTGGGATCTCCAGTGC  
 TGCAGGACCTCGCCACCGATGAAGCCAAAGGCCACACAGGCATCGGCGAGCTGGCTGCAGCCCTG  
 AATGAATTTGATAATAAGATCATCTGGACCCTATGACATTACAGCAAGCCAGGTTCCGGCCATCCCTGG  
 AGGAGAGACTGGAGAGCATCATCAGTGGGGCTGCCCTCATGGCAGATTCTCCTGCACACGTGATGATCG  
 CCGTGAACGTATTGTGGCCGAGTGAACGCAGTCCGCCAGGCGCTGCAGGACCTGCTAAGCGAGTACATG  
 AATAACACTGGAAGGAAAGAGAAAGGAGACCCTCTCAACATTGCGATTGACAAAAAGACCAAGAAACCA  
 GAGATCTGAGGAGACAGCTTCGAAAGCTGTGATGGATCACATATCAGATTCTTTCTTGGAAACCAATGT  
 CCCTTTGCTGGTTCTCATTGAGGCTGCAAAGAGTGGGAATGAAAAGGAGGTGAAGGAATATGCCCAAGTT  
 TTTCTGTAACATGCCAACAAGCTGGTGGAGTTGCCAATTTGGCTTGTTCATCTCCAACAATGAGGAAG  
 GGGTGAAGTTAGTCAGGATGGCAGCTACCCAGATTGACAGCCTGTGTCCCAGGTCATCAATGCTGCCCT  
 CACTCTGGCTGCTCGGCCACAGAGTAAAGTTGCTCAGGACAACATGGATGTCTTCAAAGATCAGTGGGAA  
 AAGCAGGTCAGTACTCACTGAGGCTGTGGATGACATCACCTCAGTGGATGACTTTCTCTGTCTCAG  
 AAAATCATATCTGGAGGATGTGAACAATGTGTGATTGCCTTGAAGAGGGAGAGCTGGACACACTGGA  
 TCGCACAGCTGGGGCCATACGAGGCCGGCAGCCCGGTCATTACATCATCAATGCCGAGATGGAAAAC  
 TACGAAGCCGGGCTATACGGAGAAAGTGTGGAAGCCACAAAATTGCTTTCAGAAAACAGTGTGCCAC  
 GCTTTGCTGAACAAGTTGAGGTTGCCATCGAAGCCCTGAGTGCCAATGTCCCTCAACCATTGCGAGGAGAA  
 TGAGTTTATCGATGCCTCGGCCTGGTGTATGATGGTGTTCGGGATATCAGAAAGGCTGTGCTGATGATC  
 AGGACTCCAGAAGAGCTAGAAGATGATTCTGACTTTGAGCAAGAGGATTATGATGTGCGTAGTCGGACAA  
 GTGTTCCAGACCGAGGATGACCAGCTCATTGCTGGGCAGAGTGCACGGGCCATCATGGCGCAACTACCACA  
 GGAGGAGAAAGCAAAAATAGCTGAGCAGGTGGAATTTTCCACCAAGAAAAAGCAAGCTGGATGCTGAA  
 GTGGCCAAGTGGGATGACAGCGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGTATGATCATGATGG  
 AGATGACAGACTTCAAGAGGCAAGGCCACTGAAAAATACATCTGATGTCTTAATGCTGCCAAGAA  
 GATTGCAAGCAGGCTCTCGAATGGACAAATTAGCGCGCGCTGTGGCTGATCAGTGTCTGATTACAGCA  
 TGTAAAGCAGGATTTATTAGCCTACCTTACGCGGATTGCCTTGTACTGCCATCAGCTTAACATCTGCAGCA  
 AAGTGAAGGCTGAAGTTCAAGTCTGGGAGGAGAACTCATTGTGTGAGGACAGGAGTTCAGAGCACTTT  
 CACTACCTTTTATGAGGTAGATTGTGATGTCATAGATGGGGCAGGGCTAGTCAACTTTCTACCCACCTC  
 CCAACCTGTGCTGAGGGAGCTCCAATCGGGAGTGGAAAGCAGTACTCCTCCATGCTGGACAGTGTACAT  
 CACTCATCCAGGCAGCCAAAACCTGATGAATGCGGTTGTCTCACGGTGAAGCATCTTATGTAGCCTC  
 AACCAATACCAGAAGTCTATGGAACAGCAGCTGTCAACTCTCCAGTTGTATCTTGAAGATGAAGGCT  
 CCTGAAAAGAAGCCCTTGTGAAGAGAGAGAAGCCTGAAGAATCCAGACAGGATTCGACGGGGTCTC  
 AAAAGAAACACATTTACCTGTGACGGCTTAAGTGAATCAAGGCAATGGATTCCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR201059 representing NM\_001106598  
 Red=Cloning site Green=Tags(s)

MTSATSPIILKWDPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSCKAHVLAASVEQATQN  
 FLEKGEQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDCSSVVRGTMVRAARALLSAVTRLLIL  
 ADMADVMRLLSHLKIVEEALAVKNATNEQDLANRFKEFGKEMVKLNVAARRQQLKDPHCRDEMAAAR  
 GALKKNATMLYASQAFLRHPDVAATRANRDYVFKQVQEAIAIGISSAAQATSPTDEAKGHTGIGELAAAL  
 NEFDNKIILDPMTFSEARFRPSLEERLESIIISGAALMADSSCTRDRRERIVAECNAVRQALQDLLSEYM  
 NNTGRKEKGDPLNIAIDKMTKKTRDLRRQLRKAVMDHISDSFLETNVPLLVLEAAKSGNEKEVKEYAQV  
 FREHANKLVEVANLACSI SNNEEGVKLVRMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWE  
 KQVRVLTEAVDDITSVDDFLSVSENHILEDVNCVIALQEGDVTDLDRTAGAIRGRAARVHIINAEMEN  
 YEAGVYTEKVLKLLSETVMPRFAEQVEVAIEAL SANVPQPFEENEIDASRLVYDGVDIRKAVLMI  
 RTPEELEDSDFEQEDYDVRSTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAE  
 VAKWDDSGNDIIVLAKQKCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSA  
 CKQDLLAYLQRIALYCHQLNICKVKAEVQNLGGELIVSGTGVQSTFTTFYEVDCVIDGGRASQLSTHL  
 PTCAEGAPIGSGSSDSSMLDSATSLIQAANKLMNAVVLTVKASYASTKYQKVYGTAAVNSPVVSWKMKMA  
 PEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1820\\_e10.zip](https://cdn.origene.com/chromatograms/ja1820_e10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001106598

**ORF Size:** 2859 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:**

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\\_001106598.1](#), [NP\\_001100068.1](#)

**RefSeq Size:** 4340 bp

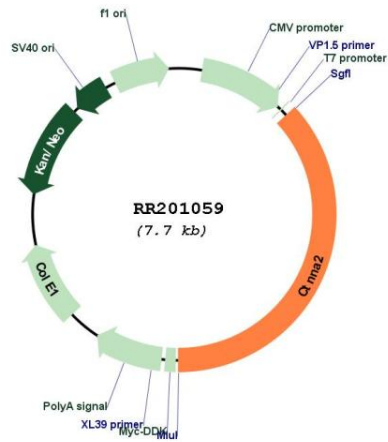
**RefSeq ORF:** 2862 bp

**Locus ID:** 297357

**Cytogenetics:** 4q33

**MW:** 105.7 kDa

Product images:



Circular map for RR201059