

## Product datasheet for **RR203630**

### **Ctnna1 (NM\_001007145) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ctnna1 (NM_001007145) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctnna1
Synonyms:	Catna1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR203630 representing NM\_001007145  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTGCCGTCCACACAGGCAACATAAATTCAAATGGGACCCAAAAGTCTAGAGATTAGAACTCTGG  
 CTGTTGAAAGACTGTTGGAGCCTTTGTTACACAGGTGACAACCCTGGTAAACACCAATAGTAAAGGACC  
 CTCTAATAAAAAGAGAGGCCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAG  
 AATTTCTTGAAAAGGGGACAAAATAGCAAAAGAGAGTCAGTTTCTTAAGGAGGAGCTTGTGGCTGCTG  
 TGGACGATGTTGAAAACAAGGAGATCTGATGAAGAGCGCTGCTGGGAGTTTGCAGATGATCCGTGCTC  
 TTCTGTGAAGCGAGGTAACATGGTTCGGGCAGCTCGAGCTCTGCTTTCCGCCGTTACCCGGCTGCTGATT  
 CTGGCTGACATGGCAGATGTCTACAAGTACTTGTTCAGCTGAAAGTTGTGAAGACGGCATTGGAAGC  
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 GAACATCATGGCAGCAAAACGACAACAGGAAGTAAAGATGTGGCCCATCGTGATCAAATGGCTGCAGCT  
 AGAGGAATCCTGCAGAAAATGTTCCCATCTCTACACTGCATCCAGGCATGCCTGCAGACCCCGATG  
 TAGCAGCCTACAAGGCCAACCGGACTTGATATACAAGCAGCTGCAGCAGGCCGTACCGGGATCTCTAA  
 TGCTGCCCAGGCTACTGCATCAGATGACGCTCCACGACGAGGGTGGCGGCGGGCGGGGAGAGCTG  
 GCGTATGCTCTCAACAACCTTTGATAAACAATCATTGTGGACCCCTTGAGCTTACGCGAGGAACGCTTTA  
 GACCTTCACTGGAAGAACGCCTGGAAAGCATAAATAGCGGAGCTGCCCTGATGGCCGACTCATCTGCAC  
 ACGTGATGACCGCGTGAGCGCATTGTGGCAGAGTGAATGCTGTCCGCCAGGCTCTACAGGACCTGCTA  
 TCAGAATACATGGGCAATGCTGGACGCAAGGAGAGGAGCGACGCACTCACTCGCCATGATAGATAAAATGA  
 CCAAGAAGACCAGGGACCTGCTGCAGCTTCGCAAGCTGTGATGGACCAGTATCAGATCTCTCTCTCT  
 GGAGACCAATGTCCCTCTTTTAGTACTGATTGAAGCTGCAAGAATGGAACGAGAAGGAGTTAAGGAG  
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 GAGCAGTGGGAAAAACAAGTCCGTGTTCTCACAGATGCTGTTGATGACATTACTTCCATTGATGACTTCT  
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 GAGATGGACAACACGAGCCAGGAGTTTACACAGAAAAGTTTCTAGAAGCCACCAAACTCTCTCCAACA  
 CAGTCATGCCCGTTTTACTGAGCAAGTGAAGCAGCTGTGGAAGCCCTCAGCTCAGACCCCGCCAGCC  
 TATGGATGAGAATGAGTTCATCGACGCCTCCCGTCTGGTATACGACGGCATCCGGGACATCCGCAAGGCC  
 GTGCTGATGATAAGGACCCCGAGGAGTTGGACGACTCTGACTTCGAGACTGAAGACTTTGATGTCAGAA  
 GCAGGACCAGTGTCCAGACAGAAGATGACCAGCTGATAGCTGGACAGAGCCCGGGCGATCATGGCTCA  
 GCTTCTCAGGAGCAGAAGGCAAAGATCGCAGAGCAGGTGGCCAGCTTCCAGGAGGAGAAGCAAGCTG  
 GACGCTGAGGTGTCCAAGTGGGACGACAGCGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGA  
 TCATGATGGAGATGACCGACTTACCCGAGGCAAAGGGCCACTCAAAAACACATCGGATGTGATCAGTGC  
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 GACTCCGCTGCAAGCAGGACCTGCTGGCCTACCTTCAGCGCATCGCGCTCTACTGCCACCAGCTCAACA  
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 AAGCCCCGAGAAGAAGCCCTTGGTGAAGAGAGAAGCAGGATGAGACACAGACCAAGATCAAGCGGGC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203630 representing NM\_001007145  
 Red=Cloning site Green=Tags(s)

MTAVHTGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATE  
 NFLEKGDKIAKESQFLKEELVAAVDDVRKQGDLMKSAAGEFADDPCCSSVKRGNMVRARALLSAVTRLLI  
 LADMADVYKLLVQLKVVEDGILKLRNAGNEQDLGIQYRALKPEVDKLNIMAARKQQLKDVGHRDQMAAA  
 RGILQKNVPILYATASQACLQHPDVAAYKANRDLIYKQLQQAVTGISNAAQATASDDASQQQGGGGGGEL  
 AYALNNFDKQIIVDPLSFSEERFRPSLEERLESIISGAALMADSSCTRDRRRERIVAECNAVQRALQDLL  
 SEYMGNAGRKERSDALNSAIDKMTKTRDLRRQLRKAVMDHVSDSFLETNVPLLVLIEAAKNGNEKEVKE  
 YAQVFREHANKLIEVANLACISNNEEGVKLVRMSASQLEALCPQVINAALALAAKPQSKLAQENMDLFK  
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 EMDNYEPGVYTEKVLKLLSNTVMPRFTEQVEAAVEALSSDPAQPMDENEFIDASRLVYDGIRDIRKA  
 VLMIRTPPELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQLPQEQKAKIAEQVASFQEEKSKL  
 DAEVSKWDDSGNDIIVLAKQCMIMMEMTDFTRGKGPLKNTSDVI SAAKKIAEAGSRMDKLGRTIADHCP  
 DSACKQDLLAYLQRIALYCHQLNICSKVKAQVQNLGGELVVSQVDSAMSLIQAANKLMNAVVTQVKASYV  
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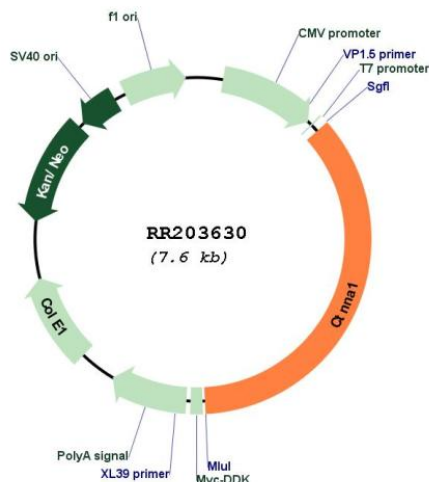
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001007145

**ORF Size:** 2724 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:**

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\\_001007145.1](#), [NP\\_001007146.1](#)

**RefSeq Size:** 3643 bp

**RefSeq ORF:** 2727 bp

**Locus ID:** 307505

**Cytogenetics:** 18p11

**MW:** 100.2 kDa