

## Product datasheet for RC237911

### CTNNA3 (NM\_001291133) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNA3 (NM_001291133) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTNNA3
Synonyms:	ARVD13; VR22
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237911 representing NM_001291133 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAAATCAACGCAAAGGAGAGAGAAACAAGGCAGCATGTCAGCTGAAACACCAATCACATTGAATATCG  
ATCCTCAGGATCTGCAGGTCAAACATTCACCGTGGAGAAGCTACTGGAGCCTCTCATAATCCAGGTTAC  
CACACTTGTAACCTGTCCCAGAACCTTCCAGCAGGAAAAAGGACGTTGAAAAGAGCCAGTGTCTT  
CTAGCTTCTGTGGAGGAAGCAACTTGGAAATTTATTAGACAAGGGAGAGAAGATTGCCAGGAAGCTACAG  
TTTTAAAGGATGAGCTTACGGCTTCACTTGAGGAAGTTCGCAAAGAAAGTGAAGCTCTGAAAGTATCAGC  
TGAGAGATTTACAGATGACCCCTGTTTTCTCCAAAAAGGGAGGCTGTGGTTCAAGCTGCCCGTGCCTTG  
CTGGCTGCGGTGACGAGACTCCTTATCCTTGGGACATGATTGATGTCATGTGCCTCTTGAACATGTGT  
CAGCTTTTCAAAGGACATTTGAGTCTCTCAAAAATGTTGCCAACAAAATCTGACCTCCAGAAAACCTACCA  
GAAGCTTGGGAAGGAGCTGGAAAATTTGGATTATTTAGCCTTCAAACGTCAGCAGGACTTAAAATCTCCA  
AATCAGAGAGATGAAATTCAGGAGCCCGAGCTTCACTGAAGGAGAACTCTCCCTCTTGGCAATTT  
GTTCAGCTTGTGGAGCATTCTGATGTTGCTTCCCTCAAAGCAAGCAAGGACACAGTTTGTGAAGAAAT  
TCAGAATGCTCTCAATGTAATTTCAAATGCTTCAAGGGATCCAGAATATGACAACCCACCAGAACCT  
CAGGCAGCAACCTGGGAAGTGCCCTTGTGAGCTGGAGAATTTAATTGCTGAAATCCACTCACAGTAA  
CTGAGGAGGAAATACGACCATCACTAGAGAAACGCCTTGAAGCCATTATCAGTGGGGCTGCTGCTGGC  
GGATTCTCATGTACGAGGGACTTACACCGAGAGCGGATTATCGAGAATGCAACGCCATTGCCAGGCT  
CTTCAGGATCTGCTTTCAGAGTACATGAACAACCTCTGTAATCAAAGTCTGACCTGGGCCCTCACTGGAG  
TAAAAATCAAATGTTGGAGGAATGCATTATTTCTGGAGTCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237911 representing NM\_001291133  
Red=Cloning site Green=Tags(s)

MKSTQRREKQGSMSAETPITLNIDPQDLQVQFTTVEKLEPLIIQVTTLVNCQPQPSSRKKGRSKRASVL  
 LASVEEATWNLLDKGEKIAQEATVLKDELTALEEVRKESEALKVSAERFTDDPCFLPKREAVVQAARAL  
 LAAVTRLLILADMIDVMCLLQHVSAFQRTFESLKNVANKSDLQKTYQKLGKELENLDYLAFKRQDLKSP  
 NQRDEIAGARASLKENSPLLHSICSACLEHSDVASLKASKDTCVCEEIQNALNVISNASQGIQNMTPPEP  
 QAATLGSALDELENLIVLNPLTVTEEEIRPSLEKRLEAII SGAALLADSSCTRD LHRERIIAECNAIRQA  
 LQDLLSEYMNNLCNQKSDLGLTGVIKILLEECIFWSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

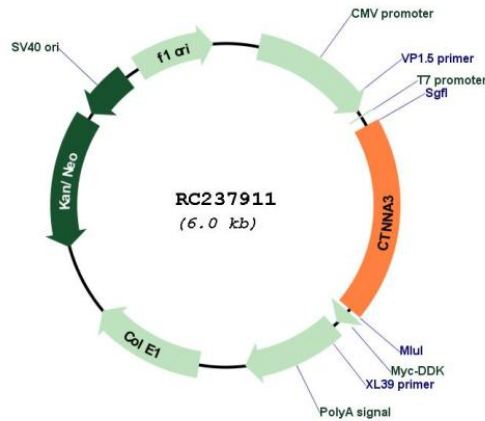
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001291133

<b>ORF Size:</b>	1164 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291133.2</a>
<b>RefSeq Size:</b>	2790 bp
<b>RefSeq ORF:</b>	1167 bp
<b>Locus ID:</b>	29119
<b>Cytogenetics:</b>	10q21.3
<b>Protein Pathways:</b>	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction
<b>MW:</b>	43.5 kDa
<b>Gene Summary:</b>	This gene encodes a protein that belongs to the vinculin/alpha-catenin family. The encoded protein plays a role in cell-cell adhesion in muscle cells. Mutations in this gene are associated with arrhythmogenic right ventricular dysplasia, familial 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]