

## Product datasheet for **RC217961**

### CTNNAL1 (NM\_003798) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNNAL1 (NM_003798) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTNNAL1
Synonyms:	ACRP; alpha-CATU; CLLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC217961 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGCTCTCCCGACCCGCCGGCGTTGGCGGCGCCGGAGCAGTCTACGGCTCCGGCTCTTCGGGCT  
 TCGCCCTCGACTCGGGACTGGAGATCAAACTCGCTCGGTGGAGCAGACGCTACTCCCGCTGTTTCTCA  
 GATCACCACGCTTATTAATCATAAAGATAATACAAAAAGTCTGATAAACTCTGCAAGCAATTCAGCGT  
 GTAGGACAAGCTGTCAACTTGGCAGTTGGAAGATTGTTAAAGTAGGAGAAGCTATAGCCAATGAAAAC  
 GGGATTTGAAAGAAGAAATAAATATTGCTTGTATTGAAGCTAAACAAGCAGGAGAAAACAATTGCAGCACT  
 TACAGACATAACCAACTGAACCATCTGGAATCTGATGGCAGATCACAATTTTTACAGACAAAACAGGA  
 GTGATAAAGGCTGCAAGATTACTTCTTCTTCAGTGACAAAAGTGTGTTGCTGGCAGACCGAGTAGTCA  
 TTAACAGATAATAACATCAAGAAATAAGTTCTCGCAACTATGGAAAGACTAGAGAAAGTAATAGCTT  
 TCAAGAGTTTGTCCAAATATTCAGTCAATTTGGAATGAAATGGTGGAGTTTGCACATCTGAGTGGAGAT  
 AGACAAAATGATTTGAAAGATGAAAAGAAAAGGCAAAAATGGCAGCAGCTAGGGCAGTTCTTGAAAAGT  
 GTACAATGATGCTTCTCACAGCTTCAAAGACATGTCTGAGGCATCCTAACTGCGAATCAGCCATAAAAA  
 CAAAGAAGGAGTATTTGACCGTATGAAAGTGGCATTGGATAAGGTCATTGAAATTGTGACTGACTGTAAA  
 CCGAATGGAGAGACTGACATTTTCTATCAGTATTTTTACTGGAATTAAGGAATTAAGATGAATATTG  
 AAGCTCTTCGGGAGAATCTTTATTTTTCAGTCCAAAGAGAACCTTTCTGTGACATTGGAAGTCATCTTGA  
 GCGTATGGAGGACTTTACTGATTCTGCCTACACCAGCCATGAGCACAGAGAACGCATCTTGAAGTGTCA  
 ACTCAGGCGAGAATGGAAGTGCAGCAGTAAATTTCTGTGTGGATTCAAGCTCAAAGCAAGAAAACAAAA  
 GCATCGCTGAAGAAGTGAAGTGCAGCAGTAAATTTGAAAATCAGTACAGTCTTAATGAACTTAAGAAAGAACT  
 TCATAGTACAGCGACACAGCTGGCAGCAGATCTATTAATAATACCATGCTGATCATGTGGTTCTAAAAGCA  
 TTAATAACTTACTGGAGTAGAAGGAAATTTAGAAGCTTTGGCTGAATATGCCTGTAATACTCTCTGAACAGA  
 AAGAGCAGCTTGTGAGACCTGTGATTGTACGACACATATCTGGGACAGAACCTCTGGAATAACCTG  
 TATACATGCAGAGGAGACATTTTCAAGTACTGGCCACAGATAATTTCTGCTGCTGAAACATTGACATTG  
 CATCCATCTAGTAAAATTGCTAAAGAAAACCTAGATGATTTTTGTGAAGCTTGGGAATCCCAAATTAGTG  
 ACATGTCAACACTGCTGAGAGAAATCAATGACGTGTTTGAAGGAAGACGAGGAGAGAAGTATGGCTACCT  
 TTCCTTCCAAAGCCAATGAAGAATAATGCAAACCTGAAATCATTAAAGCCAGACAAGCCTGACTCTGAG  
 GAGCAAGCCAAGATAGCAAAGCTTGGACTTAAGCTGGGTTTGTCTCACCTCTGACGCTGACTGCGAAATTG  
 AGAAGTGGGAAGATCAGGAGAATGAGATTGTTCAATATGGACGGAACATGTCCAGTATGGCCTATTCTCT  
 GTATTTATTTACTAGAGGAGAGGGGCCACTGAAAACCTCCAGGATTTAATTCATCAACTAGAGGTTTTT  
 GCTGCAGAGGGTTTAAAGCTTACTTCCAGTGTTCAGCTTTTTCAAACAGCTGAAAGACGATGACAAGC  
 TTATGCTTCTCCTGGAAATAACAAGCTAATTCCTCTATGCCACCAGCTCCAGACAGTAAGTAAAGCTTC  
 TTTGCAGAATAAAGTATTTCTAAAGTTGACAAGTGTATTACGAAGACAAGATCCATGATGGCTCTCTTA  
 GTCCAATCTTTTCACTTTGTTATAAAGTGTGAAGAAGCTTCAGATGAAAATAACGGATGGGTCTCAG  
 TTACAAAATAAGGACACTATGGATAGTAAAACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC217961 protein sequence  
Red=Cloning site Green=Tags(s)

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MAASPGPAGVGGAGAVYGS SSGFALDSGLEIKTRSVEQTLPLVSQITTLINHKDNTKKS DKT LQAIQR
VGQAVNLAVGRFVKVGEAIANENWDLKEEINIACIEAKQAGETIAALTDITNLNHL ESDGQITIFD KTG
VIKAARLLLSSVTKVLLLADRVIKQIITSRNKVLATMERLEKVN SFQEFVQIFSQFGNEMVEFAHLSGD
RQNDLKDEKKKAKMAAARAVLEKCTMMLLTASKTCLRHPNCESA HKNKEGVFDRMKVALDKVIEIVTDCK
PNGETDISSISIFGTGIKEFKMNI EALRENLYFQSKENLSVTLEVILERMEDFTDSAYTSHEHRRIE LLS
TQARMELQQLISVWIIQAQSKKTKSIAEELELSILKISHSLN ELKKE LHSTATQLAADLLKYHADHV LKA
LKL TGVEGNLEALAEYACKLSEQKEQLVETCRLLRHISGTEPLEITCIHAEETFQVTGQII SAAETLTL
HPSSKIAKENLDVFC EAWESQISDMSTLLREINDVFEGRRGEKYGYLSLPKPMKNNANL KSLKPKDPDSE
EQAKIAKLGKLG LLLTSDADCEIEKWEDQENEIVQYGRNMSSMAYSLYLFTRGEGPLKTSQDLI HQLEVF
AAEGLKLTSSVQAF SKQLKDDDKLMLLLEINKLIPLCHQLQTVTKTSLQNKVFLKVDKCI TKTRSMALL
VQLLSLCYKLLK LKLMENNGWVSVTNKDTMDSKT
    
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6603\\_e01.zip](https://cdn.origene.com/chromatograms/mk6603_e01.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\_003798

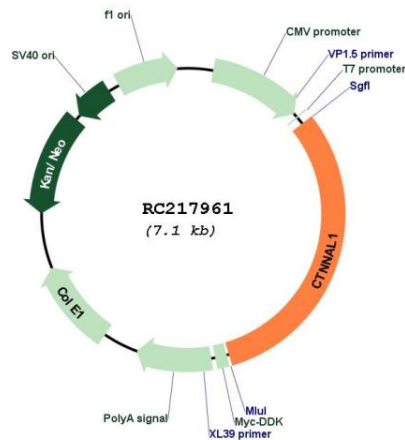
**ORF Size:** 2202 bp

**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](#)

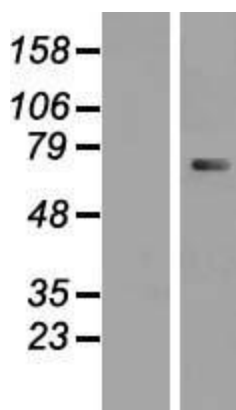
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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_003798.4</a>
<b>RefSeq Size:</b>	2573 bp
<b>RefSeq ORF:</b>	2205 bp
<b>Locus ID:</b>	8727
<b>UniProt ID:</b>	<a href="#">Q9UBT7</a>
<b>Cytogenetics:</b>	9q31.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	81.9 kDa
<b>Gene Summary:</b>	May modulate the Rho pathway signaling by providing a scaffold for the Lbc Rho guanine nucleotide exchange factor (ARHGEF1).[UniProtKB/Swiss-Prot Function]

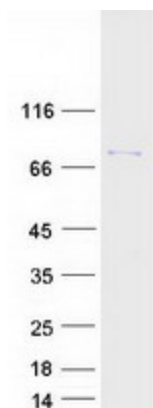
### Product images:



Circular map for RC217961



Western blot validation of overexpression lysate (Cat# [LY418424]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217961 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CTNNAL1 protein (Cat# [TP317961]). The protein was produced from HEK293T cells transfected with CTNNAL1 cDNA clone (Cat# RC217961) using MegaTran 2.0 (Cat# [TT210002]).