

## Product datasheet for **RC239574**

### delta 2 Catenin (CTNND2) (NM\_001288717) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	delta 2 Catenin (CTNND2) (NM_001288717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTNND2
Synonyms:	GT24; NPRAP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

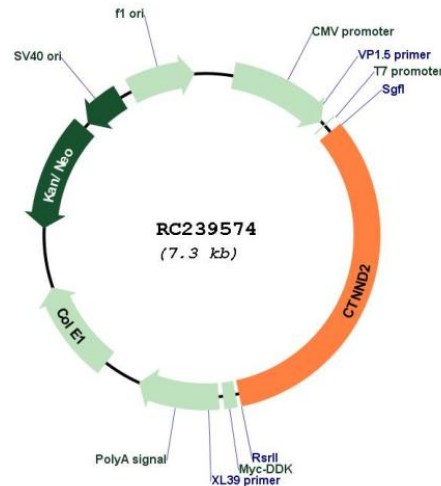
>RC239574 representing NM\_001288717  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGGAGTCTCAGCCAGAGCCAGGGGACCCTCTGCCGCCAGCACACCCGGCACCTACCGCACAGCA  
CAGCCCATCTTCCCCTGGTGTGACTCCGTCCTTGCAGCGCACAGGCAGCCAGCACGGCCACAGAA  
TGCCGCGCGGCCACCTTCCAGAGGGCCAGCTATGCCGCCGGCCAGCCTCCAATTACGCGGACCCTAC  
CGACAGCTGCAGTATTGTCCCTCTGTTGAGTCTCCATACAGAAATCCGGCCCTGCTCTCCCGCTGAAG  
GCACCTTGCCAGGTCCCGTCCATTGATAGCATTAGAAAGATCCCAGAGAATTTGGATGGAGAGACCC  
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GCGATGCACTCAAATGCCAATCATCCAGGATGCCCTAGCAGTACTGACCAACCGGTGATTATCCCCCA  
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CGTTGAAAAGTGTGTGCATTTAAGGAACCTCTCGTACCGGCTGGCGGCAGAAACGTCTCAGGACAG  
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GCAACAACACTGCAAGCAAGGCCATGTCGGATGACACAGTACAGCTGTCTGCTGCACACTGCACGAAGT  
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AGATGCCATGACAGCTCAAAACACTGGAATTTCAACTTGTATAGGAATCTTATGGTGCGCCCGCTGAA  
GACATCAAACAACACAGGTTTCAGCACAGCCAGTCCCACAGGAGCCAGCAGAAAAGATTACGAGACCT  
ACCAGCATTTCAGAATCCACAAGAAATACGATGAGTCTTCTTCGAGGACCAGGTCCACCATCGCCC  
TCCCGCCAGCGAGTACACCATGCACCTGGGTCTCAAGTCCACCGGCAACTACGTTGACTTCTACTCAGCT  
GCCCGTCCCTACAGTGAAGTGAAGTATGAAACGAGCCACTACCGGCCCTCCCCGACTCCTGGGTG

**AGCGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



**Plasmid Map:**


**ACCN:** NM\_001288717

**ORF Size:** 2376 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\\_001288717.2](#)

**RefSeq Size:** 4916 bp

**RefSeq ORF:** 2379 bp

**Locus ID:** 1501

**UniProt ID:** [Q9UQB3](#)

**Cytogenetics:** 5p15.2

**Protein Families:** Druggable Genome

**MW:** 87.7 kDa

**Gene Summary:** This gene encodes an adhesive junction associated protein of the armadillo/beta-catenin superfamily and is implicated in brain and eye development and cancer formation. The protein encoded by this gene promotes the disruption of E-cadherin based adherens junction to favor cell spreading upon stimulation by hepatocyte growth factor. This gene is overexpressed in prostate adenocarcinomas and is associated with decreased expression of tumor suppressor E-cadherin in this tissue. This gene resides in a region of the short arm of chromosome 5 that is deleted in Cri du Chat syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013]