

Product datasheet for **RC239740**

delta 2 Catenin (CTNND2) (NM_001288716) Human Tagged ORF Clone

Product data:

| | |
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| Product Type: | Expression Plasmids |
| Product Name: | delta 2 Catenin (CTNND2) (NM_001288716) 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 |



[View online »](#)

ORF Nucleotide
Sequence:

>RC239740 representing NM_001288716
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAGCATGAGTTCAGCAGAAGAGCAGTTTCAGTGGCAGTCAACAAGATGGTCAAAAAGATATCGAAG
ATGAGCTTACAACAGGTCTCGAGCTGGTGGACTCCTGTATTAGGTCACTACAGGAATCAGGAATACTTGA
CCCACAGGATTATTCTACAGGTGAAACTGGTCCCGAGCCTCATACAGCAGCCAGCATGGGCACCTGGGC
CCAGAGTTGCGGGCCCTGCAGTCCCAGAACACCACATAGATCCCATCTATGAAGACCGCGTCTATCAGA
AGCCCCCTATGAGGAGTCTCAGCCAGAGCCAGGGGACCCTCGCCGCCAGCACACACCGGCACCTACCG
CACGAGCACAGCCCCATTTCCCTGGTGTGACTCCGTCCTTGCAGCGCACAGGCAGCCAGCACGGC
CCACAGAATGCCGCCGCGCCACCTCCAGAGGGCCAGCTATGCCGCCGGCCAGCCTCCAATTACGCGG
ACCCCTACCGACAGCTGCAGTATTGTCCCTCTGTTGAGTCTCCATACAGCAAATCCGGCCCTGCTCTCC
GCCTGAAGGCACCTTGGCCAGGTCCCGTCCATTGATAGCATTAGAAAAGATCCCAGAGAATTTGGATGG
AGAGACCCGGAATGCCGGAAGTATTAGATGTTGCAGCACCAGTTCCCTCGTCCAGTCAACGCGG
CAGCCTACTTGCAACACCTCTGTTTTGGAGACAACAAAATTAAGCCGAGATAAGGAGACAAGGAGGCAT
CCAGCTCCTGGTGGACCTGTTGGATCATCGGATGACCGAAGTCCACCGTAGTGCCTGTGGAGCTCTGAGA
AACCTGGTGTATGGGAAGGCCAACGATGATAACAAAATGGCCCTGAAAAACTGTGGTGGCATCCCAGCAC
TGGTGAGGTTACTCCGCAAGACGACTGACTGGAGATCCGGGAGCTGGTACAGGAGTCTTTGGAACCT
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AGAGTGTGATGGGCTTACGGATGCCTTGCTGTAGGTGATCCAGTCTGCGCTGGGGAGCAGTGAGATCGAT
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TCACACTGCTCTGAGTGTCAAATCCAGACACGCTGGAAGGGGCGGCAGGCGCCCTGCAGAACTTGGC
TGCAGGGAGCTGGAAGTGGTCAATATATCCGAGCCGCTGTCCGAAAAGAGAAAGGCTGCCCATCCTC
GTGGAGCTGCTCCGAATAGACAATGACCGTGTGGTGTGCGCGGTGCCACTGCGTGCAGAACATGGCCT
TGGACGTCAGAAAATAAGGAGCTCATCGCAAAATACGCCATGCGAGACCTAGTCCACAGGCTTCCAGGAGG
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CACGAAGTGATTACCAAGAACATGGAGAACGCCAAGGCCCTACGGGATGCCGGTGGCATCGAGAAGTTGG
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CCGCTGAAGACATCAAACACAACAGGTTTCAGCACAGCCAGTCCACAGGAGCCAGCAGAAAAGATTA
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GGTG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239740 representing NM_001288716
 Red=Cloning site Green=Tags(s)

MSSMSSAEEQFQWQSQDGQKDIEDELTTGLELVDSCIRSLQESGILDPQDYSTGETGSRASYSSQHGHLG
 PELRALQSPHHIDPIYEDRVYQKPPMRSLSQSQGDPLPPAHTGTYRTSTAPSSPGVDSVPLQRTGSQHG
 PQNAAAATFQRASYAAGPASNYADPYRQLQYCPVSESPYSKSGPALPPEGTLARSPSIDSIQKDPREFGW
 RDPELPEVIQMLQHQPFSVQSNAAAYLQHLCFGDNKIKAEIRRQGGIQLLVDLLDHRMTEVHRSACGALR
 NLVYGKANDDNKIALKNCGGIPALVRLLRKTTDLEIRELVTGVLWNLSSCDALKMPIIQDALAVLTNAVI
 IPHSGWENSPLQDDRKIQLHSSQVLRNATGCLRNVSAGEEARRRMRECDGLTDALLYVIQSALGSSEID
 SKTVENCVCILRNLSYRLAAETSQGHMGTDDELGLLCGEANGKDAESSGCWGKKKKKKSQDQWDVGP
 LPDCAEPPKGIQMLWHPSIVKPYLTLLSECSNPDTLEGAAGALQNLAAAGSWKWSVYIRAAVRKEKGLPIL
 VELLRIDNDRVCAVATALRNMALDVRNKEIGKYAMRDLVHRLPGNNSNNTASKAMSDDTVTAVCCTL
 HEVITKNMENAKALRDAGGIEKLVGISKSKGDKHSPKVVKAASQVLNSMWQYRDLRSLYKKGWSQYHFV
 ASSTIERDRQRPYSSSRTPSISPVRVSPNRSASAPSPREMI SLKERKTDYECTGSNATYHGAKGEHT
 SRKDAMTAQNTGISTLYRNSYGAPAEDIKHNVSAQPVQPQEPSRKDYETYQPFQNSTRYDESFEDQVH
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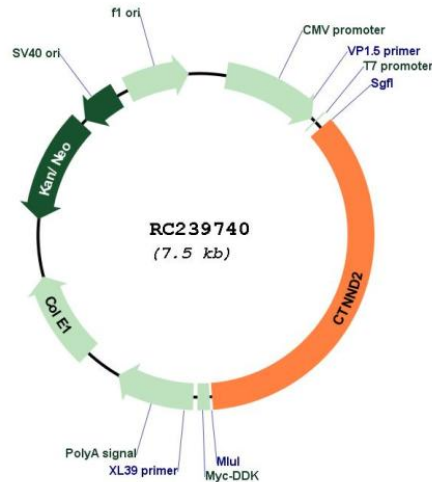
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001288716

ORF Size: 2664 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_001288716.1](#), [NP_001275645.1](#)

RefSeq Size: 4551 bp

RefSeq ORF: 2667 bp

Locus ID: 1501

UniProt ID: [Q9UQB3](#)

Cytogenetics: 5p15.2

Protein Families: Druggable Genome

MW: 98.4 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]