

Product datasheet for RC224464

delta 2 Catenin (CTNND2) (NM_001332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	delta 2 Catenin (CTNND2) (NM_001332) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	delta 2 Catenin
Synonyms:	GT24; NPRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224464 representing NM_001332 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTGCAGGAAGCCCGGGCGCCGCGCCTTTGGGAGCTATGCCTGTTCCAGACCAGCCTTCATCAG
CCTCAGAGAAGACGAGTTCCTGAGCCCGGCTTAAACACCTCCAACGGGGATGGCTCTGAAACAGAAAC
CACCTCTGCCATCCTCGCCTCAGTCAAAGAACAGGAATTACAGTTTGAAAGGCTGACCCGAGAGCTGGAG
GCTGAACGGCAGATCGTAGCCAGCCAGCTGGAGCGATGCAAGCTCGGATCCGAGACTGGCAGCATGAGCA
GCATGAGTTCAGCAGAAGAGCAGTTTCAGTGGCAGTACAAGATGGTCAAAAAGATATCGAAGATGAGCT
TACAACAGGTCTCGAGCTGGTGGACTCCTGTATTAGGTCACTACAGGAATCAGGAATACTTGACCCACAG
GATTATTCTACAGGTGAAAGGCCAGCCTGCTCTCCAGAGTGCACCTTCAGCTCAATTCAAAACCTGAAG
GGTCTTTCCAGTATCCGGCCAGCTACCATAGCAACCAGACCCTGGCCCTGGGGGAAACCACCCCTTCACA
GCTCCCGGGCCGAGGCACACAAGCCCGAGCTACGGGCCAGAGCTTCAGCCAGGGCAGCAGCCAGCCGCGCC
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TGGGCAGCGCCTTCCACCTGCCCGACGCGCCGCGCCGCGCCGCGCCGCGCCGCGCCGCGCTCTACTACTCCAGCTC
CAGCTGCCCCGCGCCGCGCGCGGGGGTCCCCGCTGGCCGCGCCCAAGGCGGTTCCGCCACCAAGCTG
CAGCGCGCGGCTCGGCCCGAGGGCGCCACCTACGCCGCGCCGCGCGGCTCCTCGCCCAAGCAGTCCG
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CCCAGTCCGCGTGACCTCGCCCCCACCCTGTCAGTCCACCATCTCCTCCTCGCCCATCCACCAGTGTAGC
TCCACCATCGGCACGTACGCCACCCTGTGCGCCACCAAGCGCCTGGTCCACGCGTCCGAGCAGTACAGCA
AGCACTCGCAGGAGTGTATGCCACGGCCACCTCCAGAGGCGGGCAGCCTGGCAGCTGGTTCCCGAGC
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GATCCCATCTATGAAGACCGCTCTATCAGAAGCCCCATGAGGAGTCTCAGCCAGAGCCAGGGGGACC
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TATGCCGCCGGCCAGCCTCCAATTACGCGGACCCCTACCGACAGCTGCAGTATTGTCCCTCTGTTGAGT
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CTCAAGTCCACGGCAACTACGTTGACTTCTACTCAGCTGCCCGTCCCTACAGTGAAGTGAAGTATGAAA
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224464 representing NM_001332
 Red=Cloning site Green=Tags(s)

MFARKPPGAAPLGAMPVPDQPSSASEKTSSLSPGLNLSNGDGSETETTSAILASVKEQELQFERLTRELE
 AERQIVASQLERCKLGSETGSMSSMSSAEEQFQWQSQDGQKIDIEDELTGLELVDSCIRSLQESGILDPQ
 DYSTGERPSLLSQSALQLNSKPEGSFQYPASYHSNQTALGETTPSQLPARGTQARATGQSFQSGTTSRA
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 QRGGSAPEGATYAAPRGSSPKQSPSRLAKSYSTSSPINIVSSAGLSPIRVTSPTVQSTISSSPIHQLS
 STIGTYATLSPTKRLVHASEQYSKHSQELYATATLQRPGLAAGSRASYSSQHGHGLPELRALQSPHEHI
 DPIYEDRVYQKPPMRSLSQSQGDPLPPAHTGTYRTSTAPSSPGVDSVPLQRTGSGHQPNAAAATFQRAS
 YAAGPASNYADPYRQLQYCPVSESPYSKSGPALPPEGLARSPSIDSIQKDPREFGWRDPELPEVIQMLQ
 HQFPSVQSNAAAYLQHLCFGDNKIKAEIRRQGGIQLLDVLLDHRMTEVHRSACGALRNLVYGKANDDNKI
 ALKNCGGIPALVRLLRKTTDLEIRELVTGVLWNLSSCDALKMPIIQDALAVLTVAVIIPHSGWENSLQD
 DRKIQLHSSQVLRNATGCLRNVSSAGEEARRRMRECDGLTDALLYVIQSALGSSEIDSKTVENVCILRN
 LSYRLAETSQGGHMGTDDEL DGLLCGEANGKDAESSGCWGKKKKKKKSSQDQWDGVPDPDCAEPPKGIQM
 LWHPSIVKPYLTLLSECSNPDTLEGAAGALQNLAAAGSWKWSVYIRAAVRKEKGLPILVELLRIDNDRVVC
 AVATALRNMALDVRNKEIIGKYAMRDLVHRLPGGNSNNNTASKMSDDTVTAVCCTLHEVITKNMENAKA
 LRDAGGIEKLVGISKSGDKHSPKVKAASQVLSNMWQYRDLRSLYKKGWSQYHFVASSSTIERDRQRP
 YSSRTPSISPVRVSPNNRSASAPSPREMI SLKERKTDYECTGSNATYHGAKGEHTSRKDAMTAQNTGI
 STL YRNSYGAPAE DIKHNQVSAQPVPQEPSRKDYETYQPFQNSTRYDESFFEDQVHRRPPASEYTMHLG
 LKSTGNYVDFYSAARPYSELNYETSHYPASPD SWV

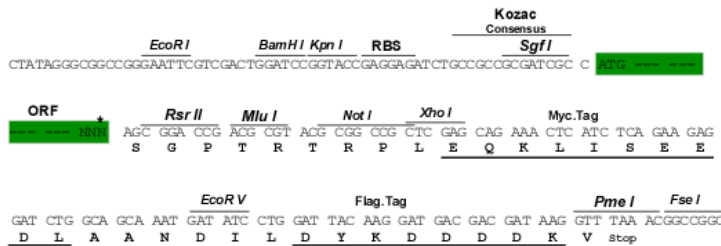
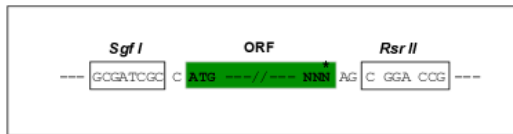
SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shutting:



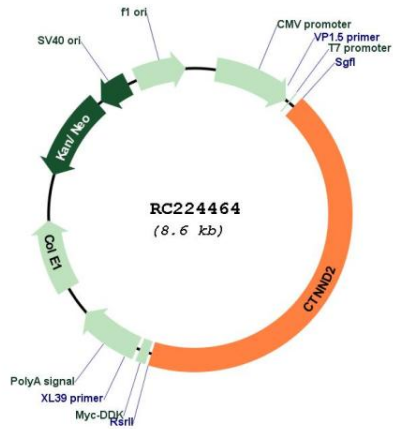
* The last codon before the Stop codon of the ORF

ACCN: NM_001332

ORF Size: 3675 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:	<ol style="list-style-type: none"> 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_001332.4
RefSeq Size:	5440 bp
RefSeq ORF:	3678 bp
Locus ID:	1501
UniProt ID:	Q9UQB3
Cytogenetics:	5p15.2
Domains:	Armadillo_seg
Protein Families:	Druggable Genome
MW:	132.5 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]

Product images:



Circular map for RC224464