

Product datasheet for **RG239574**

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:	TurboGFP
Symbol:	CTNND2
Synonyms:	GT24; NPRAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

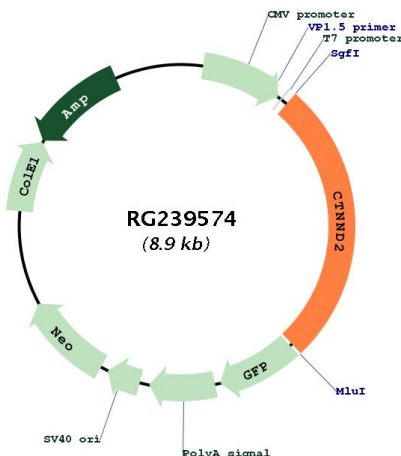
>RG239574 representing NM_001288717.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGAGTCTCAGCCAGAGCCAGGGGGACCCTCTGCCGCCAGCACACACCGGCACCTACCGCACGAGC
ACAGCCCCATCTTCCCCTGGTGTGACTCCGTCCTCCCTTGCAGCGCACAGGCAGCCAGCACGGCCACAG
AATGCCGCCGCGGCCACCTTCCAGAGGGCCAGCTATGCCGCCGGCCAGCCTCCAATTACGCGGACCCC
TACCGACAGCTGCAGTATTGTCCCTCTGTTGAGTCTCCATACAGCAAATCCGGCCCTGCTCTCCGCCT
GAAGGCACCTTGCCAGGTCCCCGTCCATTGATAGCATTAGAAAAGATCCAGAGAATTTGGATGGAGA
GACCCGGAAGTCCGGAAGTGATTCAGATGTTGCAGCACCAGTTTCCCTCGGTCCAGTCTAACGCGGCA
GCCTACTTGCAACACCTCTGTTTTGGAGACAACAAAATTAAGCCGAGATAAGGAGACAAGGAGGCATC
CAGCTCCTGGTGGACCTGTTGGATCATCGGATGACCGAAGTCCACCGTAGTGCCTGTGGAGCTTGAGA
AACCTGGTGTATGGGAAGGCCAACGATGATAACAAAATTGCCCTGAAAACTGTGGTGGCATCCCAGCA
CTGGTGAGTTACTCCGCAAGACGACTGACCTGGAGATCCGGGAGCTGGTACAGGAGTCTTTGGAAC
CTCTCCTCATGCGATGCACTCAAAATGCCAATCATCCAGGATGCCCTAGCAGTACTGACCAACGCGGTG
ATTATCCCCCACTCAGGCTGGGAAAATTCGCTCTTCAGGATGATCGGAAAATACAGCTGCATTCATCA
CAGGTGCTGCGTAACGCCACCGGTGCCTAAGGAATGTTAGTTCGGCCGGAGAGGAGGCCCCAGAAAGG
ATGAGAGAGTGTGATGGGCTTACGGATGCCTTGCTGTACGTGATCCAGTCTGCGCTGGGGAGCAGTGAG
ATCGATAGCAAGACCGTTGAAAAGTGTGTGTGCAATTTAAGGAACCTCTCGTACCGGCTGGCGGCAGAA
ACGTCTCAGGGACAGCACATGGGCACGGACGAGCTGGACGGGCTACTCTGTGGCGAGGCCAATGGCAAG
GATGCTGAGAGCTCTGGGTGCTGGGGCAAGAAGAAGAAAAGAAAATCCCAAGATCAGTGGGATGGA
GTAGACCTCTTCCAGACTGTGCTGAACCACAAAAGGGATCCAGATGCTGTGGCACCCATCAATATGTC
AAACCCTACCTCACACTGCTCTCTGAGTGTCAAATCCAGACACGCTGGAAGGGCGGCAGGCCCTG
CAGAACTTGCTGCAGGGAGCTGGAAGTGGTCAGTATATATCCGAGCCGCTGTCCGAAAAGAGAAAAGGC
CTGCCATCCTCGTGGAGCTGCTCCGAATAGACAATGACCGTGTGGTGTGCGCGGTGGCCACTGCGCTG
CGGAACATGGCCTTGACGTCAGAAAATAAGGAGCTCATCGGCAATACGCCATGCGAGACCTAGTCCAC
AGGCTTCCAGGAGGGAACAACAGCAACAACACTGCAAGCAAGGCCATGTCGGATGACACAGTGACAGCT
GTCTGTGCACACTGCACGAAGTATTACCAAGAACATGGAGAACGCCAAGGCCCTACGGGATGCCGGT
GGCATCGAGAAGTTGGTGGCATCTCCAAAAGCAAAGGAGATAAACACTCTCCAAAAGTGGTCAAGGCT
GCATCTCAGGTCTCAACAGCATGTGGCAGTACCGAGATCTGAGGAGTCTCTACAAAAGGATGGATGG
TACAATACCACTTTGTAGCCTCGTCTTCAACCATCGAGAGGGACCGGCAAGGCCCTACTCTCTCTCC
CGCACGCCCTCCATCTCCCCTGTGCGCGTGTCTCCCAACAACCGCTCAGCAAGTGCCCCAGCTTCACT
CGGGAAATGATCAGCCTCAAAGAAAAGAAAACAGACTACGAGTGCACCGGCAGCAACGCCACCTACCAC
GGAGCTAAAGGCGAACACACTTCCAGGAAAAGATGCCATGACAGCTCAAAACACTGGAATTTCACTTTG
TATAGGAATCTTATGGTGCGCCGCTGAAGACATCAAACACAACCAGGTTTCAGCACAGCCAGTCCCA
CAGGAGCCAGCAGAAAAGATTACGAGACCTACCAGCCATTTCAGAATCCACAAGAAAATTACGATGAG
TCCTTCTTCGAGGACCAGGTCCACCATCGCCCTCCCGCCAGCGAGTACACCATGCACCTGGGTCTCAAG
TCCACCGGCAACTACGTTGACTTCTACTCAGTGCCTCCCTACAGTGAAGTGAAGTGAAGTGAAGTGAAG
CACTACCCGGCCTCCCCGACTCCTGGGTG
ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG239574
Blue=ORF Red=Cloning site Green=Tag(s)

MRSLSQSQGDPLPPAHTGTYRTSTAPSSPGVDSVPLQRTGSQHGPQAAAAATFQRASYAAGPASNYADP
YRQLQYCPSVESPYSKSGPALPPEGLARSPSIDSIQKDPREFGWRDPELPEVIQMLQHQFPSVQSNA
AYLQHLFCGDNKIKAEIRROGGIQLLDLLDHRMTEVHRSACGALRNLVYGKANDDNKIALKNCGGIPA
LVRLLRKTTDLIRELVTGVLWNLSSCDALKMPIIQDALAVLTNAVIIPHSGWENSPLQDDRKIQLHSS
QVLRNATGCLRNVSAGEEARRRMRECDGLTDALLYVIQSALGSSEIDSKTVENCVCILRNL SYRLAAE
TSQGQHMGTDEL DGLLCGEANGKDAESSGCWGGKKKKKSSQDQWDGVPDCAEPPKGIQMLWHPSIV
KPYLTLLSECSNPDTLEGAAGALQNLAAAGSWKWSVYIRAAVRKEKGLPILVELLRIDNDRVVCAVATAL
RNMALDVRNKELIGKYAMRDLVHRLPGGNSNNTASKAMSDDTVTAVCCTLHEVITKNMENAKALRDAG
GIEKLVGISKSGDKHSPKVVKAASQVLNSMWQYRDLRSLYKKGWSQYHFVASSSTIERDRQRPYSS
RTPSISPVRVSPNRSASAPASPREMISLKERKTDYECTGSNATYHGAKGEHTRKRDAMTAQNTGISTL
YRNSYGAPAEDIKHNQVSAQPVPQEPSRKDYETYQPFQNSTRYDESFFEDQVHHRPPASEYTMHLGLK
STGNYVDFYSAARPYSELNYETSHYPASPSWV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-RsrII

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).

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]