

## Product datasheet for **RG223066**

### CTNND1 (NM\_001085465) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNND1 (NM_001085465) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTNND1
Synonyms:	BCDS2; CAS; CTNND; p120; p120(CAS); p120(CTN); P120CAS; P120CTN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223066 representing NM\_001085465  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGGAGCCGGGCGAGATTGTGGAGACCTACACGGAGGAGGATCCTGAGGGAGCCATGTCTGTAGTCT  
 CTGTGGAGACCTCAGATGATGGGACCACTCGGCCACAGAGACCACGGTCAAGAAAGTAGTGAAGACTGT  
 GACAACACGGACAGTACAGCCAGTCGCTATGGGACCAGACGGGTTGCCTGTGGATGCTTCATCAGTTTCT  
 AACAACTATATCCAGACTTTGGGTCTGATTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTGG  
 GGCAAGCTGGCACTGCTACCTTCTTAGGAACCTCCACTACCTCCTGATGGTTATAGTCGCCACTATGA  
 AGATGGTTATCCAGGTGGCAGTGATAACTATGGCAGTCTGTCCCAGGATGACCCGATTGAGGAGCGGTAT  
 AGGCCAGCATGGAAGGCTACCGGGCACCTAGTAGACAGGATGTGTATGGGCCCCAACCCAGGTTCCGG  
 TAGGTGGGAGCAGCGTGGATCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTAG  
 TATGGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCGGACTGGGACACCC  
 TCTGACCCTCGTCGGCGCCTCAGGAGCTATGAAGACATGATTGGTGGAGGAGTGCATCGGATCAATACT  
 ACTGGGCTCCTTTGGCCAGCATGAGCGAGGAAGTTTAGCAAGCTTGGATAGCCTGCGCAAGGAGGGCC  
 TCCACCTCCTAATTGGAGACAGCCAGAGCTGCCAGAGGTGATCGCCATGCTTGGATTCCGCTTGGATGCT  
 GTCAAGTCCAATGCAGCTGCATACCTGCAACACTTATGCTACCGCAATGACAAGGTGAAGACTGACGTGC  
 GGAAGCTCAAGGGCATCCAGTACTGGTGGGATTGTTAGACCATCCAAAAAGGAAGTGCACCTTGGAGC  
 CTGTGGAGCTCTCAAGAATATCTCTTTGGACGTGACCAGGATAACAAGATTGCCATAAAAACTGTGAT  
 GGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGCTCGTGATATGGACCTTACTGAAGTTATTACCGGAA  
 CCCTGTGGAATCTTTCATCCCATGACTCAATCAAAATGGAGATTGTGGACCATGCATGCCCTGCTGAC  
 AGATGAAGTGATCATTCTCATTCTGGTTGGGAGCGGGAACCTAATGAAGACTGTAAAGCCACGCCATATT  
 GAGTGGGAATCGGTGCTACCAACACAGCTGGCTGCCTTAGGAATGTAAGCTCAGAGAGGAGTGAAGCTC  
 GCCGAAACTTCGGGAATGTGATGGTTTAGTTGATGCCCTCATTTCATTGTTTCAGGCTGAGATTGGGCA  
 GAAGGATTCAGACAGCAAGCTTGTAGAGAACTGTGTTGCCTTCTCGGAACTTATCATATCAAGTTCAC  
 CGGGAGATCCACAGGCAGAGCGTTACCAAGAGGCAGCTCCCAATGTTGCCAACAACTACTGGCCACATG  
 CTGCCAGTTGCTTTGGGGCAAGAAGGGCAAAGGGAAAAAACCTATAGAGGATCCAGCAAACGATACAGT  
 GGATTTCCCTAAAAGAACGAGTCCAGCTCGAGGCTATGAGCTCTATTTCAGCCAGAGGTGGTTCGGATA  
 TACATCTCACTTCTTAAGGAGAGCAAGACTCCTGCCATCTAGAAGCCTCAGCTGGAGCTATCCAGAACT  
 TGTGTGCTGGGCCTGGACGTATGGTCGATACATCCGCTCTGCTCTGCGTCAAGAGAAGGCTCTTCTGC  
 CATAGCTGACCTCCTGACTAATGAACATGAACGGTGGTAAAAGCTGCATCTGGAGCACTGAGAAACCTG  
 GCTGTGGATGCTCGAACAAAGAATTAATTGGTAAACATGCTATTCTAACTTGGTAAAGAATCTGCCAG  
 GAGGACAGCAGAACTCCTCTTGGAAATTTCTCTGAGGACTGTCATCTCTATTTTGAACACTATCAACGA  
 GGTTATCGCTGAGAACTTGGAGGCTGCCAAAAAGCTTCGAGAGACACAGGATTTGAGAAGCTGGTGTG  
 ATCAACAAATCAGGGAACCGCTCAGAAAAAGAAGTTCGAGCAGCAGCACTTGATTACAGACAATCTGGG  
 GATATAAGGAACTGCGGAAGCCACTGGAAAAAGAAGGATGGAAGAAATCAGACTTTCAGGTGAATCTAAA  
 CAATGCTTCCGAAGCCAGAGCAGTCAATCATATGATGATAGTACTCTCCCTCTCATTGACCGGAACCAA  
 AAATCAGATAACAATATTCCACACCAAAATGAGAGAGGAGACCACAATAGAACACTGGATCGATCCGGGG  
 ATCTAGGCGACATGGAGCCATTGAAGGGAACAACCCCTTGTGATGACAGGAGGGGCGAGGATCTCTGGA  
 GGAAGAGTTGGATGTGTTGGTTTTGGATGATGAGGGGGCCAAGTGTCTTACCCCTCCATGCAGAAGATT

**ACCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG223066 representing NM\_001085465  
Red=Cloning site Green=Tags(s)

MQEPGQIVETYTEEDPEGAMSVSVETSDDGTTTRRTETT VKKVVKTVTTRTVQPVAMGPDGLPVDASSVS  
NNYIQT LGRDFRKNNGGPGPYVGQAGTATLPRNFHYPPDGYSRHYEDGYPGGSDNYGSLSRVTRIEERY  
RPSMEGYRAPS RQDVYGPQPQVRVGGSSVDLHRFHPEPYGLEDDQRSMGYDDL DYGMMSDYGTARRTGTP  
SDPRRRLRSYEDMIGEEVPSDQYYWAPLAQHERGSLASLDSL RKGPPPPNWRQPELPEVIAMLGFRLDA  
VKSNAAYLQHL CYRNDKVKTDVRKLGIPVLVGLLDHPKKEVHLGACGALKNISFGRDQDNKIAIKNCD  
GVPALVRLLRKARDMDL TEVITGTLWNLSSHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHI  
EWESVL TNTAGCLRNVSSEARRKLRECDGLVDALIFIVQAEIGQKSDSKLVENCVCLLRNLSYQVH  
REIPQAERYQE AAPNVANNTGPHAASCFGAKKGGKPKIEDPANDTVDFPKRTSPARGYELLFQPEVVRI  
YISLLKESKTPAILEASAGAIQNL CAGRWTYGRYIRSALRQEKALSAIADLLTNEHERVVKAASGALRNL  
AVDARNKELIGKHAIPNLVKNLPGGQQNSSWNFSEDTVISILNTINEVIAENLEAAKKLRETQGIEKLV  
INKSGNRSEKEVRAAALVLQTIWGYKELRKPLEKEGWKKSDFQVNLNNASRSQSSHSYDDSTLPLIDRNQ  
KSDNNYSTPNERGDHNR TLDRSGDLGDMEPLKGT TPLMQDEGQESLEEELDVLVL DDEGGQVSYPMSQKI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:

Cloning sites used for ORF Shutting:



**Kozac**  
Consensus  
*Sgf I*                      *Asc I*

*EcoR I*                      *BamH I* *Kpn I*                      RBS                      *Sgf I*                      *Asc I*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

*Hind III*                      *Nhe I* *Rsr II*                      *Mlu I*                      *Not I*                      *Xho I*                      GFP Tag

CAAGCTTAAGCTAGCTAGCGGACCG                      ACG CGT                      ACG CGG                      CCG CTC GAG                      ATG GAG AGC GAC --- --- ---

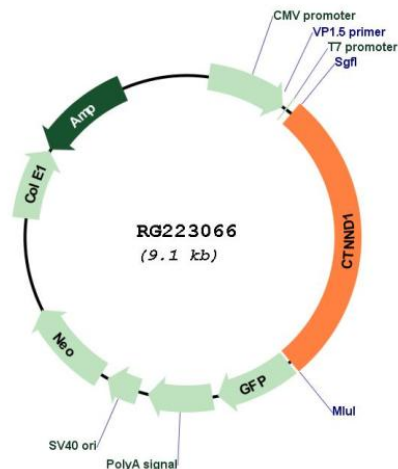
T                      R                      T                      R                      P                      L                      E                      M                      E                      S                      D                      -                      -                      -

*Pme I*                      *Fse I*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

## Plasmid Map:



ACCN: NM\_001085465

ORF Size: 2520 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\\_001085465.1](#), [NP\\_001078934.1](#)

RefSeq Size: 5801 bp

RefSeq ORF: 2523 bp

Locus ID: 1500

UniProt ID: [O60716](#)

**Cytogenetics:** 11q12.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Adherens junction, Leukocyte transendothelial migration

**Gene Summary:** This gene encodes a member of the Armadillo protein family, which function in adhesion between cells and signal transduction. Multiple translation initiation codons and alternative splicing result in many different isoforms being translated. Not all of the full-length nature of the described transcript variants have been determined. Read-through transcription also exists between this gene and the neighboring upstream thioredoxin-related transmembrane protein 2 (TMX2) gene. [provided by RefSeq, Dec 2010]