

## Product datasheet for **RG223704**

### CTNND1 (NM\_001085469) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNND1 (NM_001085469) 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:

>RG223704 representing NM\_001085469  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCAGGAGCCGGGCGAGATTGTGGAGACCTACACGGAGGAGGATCCTGAGGGAGCCATGTCTGTAGTCT  
CTGTGGAGACCTCAGATGATGGGACCACTCGGCCGCACAGAGACCACGGTCAAGAAAGTAGTGAAGACTGT  
GACAACACGAGACGTACAGCCAGTCGCTATGGGACCAGACGGGTTGCCTGTGGATGCTTCATCAGTTTCT  
AACAACTATATCCAGACTTTGGGTCTGATTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTGG  
GGCAAGCTGGCACTGCTACCTTCTTAGGAACCTCCACTACCTCCTGATGGTTATAGTCGCCACTATGA  
AGATGGTTATCCAGGTGGCAGTGATAACTATGGCAGTCTGTCCCAGGATGACCCGATTGAGGAGCGGTAT  
AGGCCAGCATGGAAGGCTACCGGGCACCTAGTAGACAGGATGTGTATGGGCCCCAACCCAGGTTCCGG  
TAGGTGGGAGCAGCGTGGATCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTAG  
TATGGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCGGACTGGGACACCC  
TCTGACCCTCGTCGGCGCCTCAGGAGCTATGAAGACATGATTGGTGAGGAGGTGCCATCGGATCAATACT  
ACTGGGCTCCTTTGGCCAGCATGAGCGAGGAAGTTTAGCAAGCTTGGATAGCCTGCGCAAGGAGGGCC  
TCCACCTCCTAATTGGAGACAGCCAGAGCTGCCAGAGGTGATCGCCATGCTTGGATTCCGCTTGGATGCT  
GTCAAGTCCAATGCAGCTGCATACCTGCAACACTTATGCTACCGCAATGACAAGGTGAAGACTGACGTGC  
GGAAGCTCAAGGGCATCCAGTACTGGTGGGATTGTTAGACCATCCAAAAAGGAAGTGCACCTTGGAGC  
CTGTGGAGCTCTCAAGAATATCTCTTTGGACGTGACCAGGATAACAAGATTGCCATAAAAACTGTGAT  
GGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGCTCGTGATATGGACCTTACTGAAGTTATTACCGGAA  
CCCTGTGGAATCTTTCATCCCATGACTCAATCAAAATGGAGATTGTGGACCATGCATGCATGCCCTTGC  
AGATGAAGTGATCATTCTCATTCTGGTTGGGAGCGGGAACCTAATGAAGACTGTAAAGCCACGCCATATT  
GAGTGGGAATCGGTGCTACCAACACAGCTGGCTGCCTTAGGAATGTAAGCTCAGAGAGGAGTGAAGCTC  
GCCGAAACTTCGGGAATGTGATGGTTTGTGATGCCCTCATTTCATTGTTTCAGGCTGAGATTGGGCA  
GAAGGATTCAGACAGCAAGCTTGTAGAGAACTGTGTTGCCTTCTCGGAACTTATCATATCAAGTTCAC  
CGGGAGATCCACAGGCAGAGCGTTACCAAGAGGCAGCTCCCAATGTTGCCAACAACTACTGGCCACATG  
CTGCCAGTTGCTTTGGGCAAGAAGGGCAAAGGGAAAAAACCTATAGAGGATCCAGCAACGATACAGT  
GGATTTCCCTAAAAGAACGAGTCCAGCTCGAGGCTATGAGCTCTATTTCAGCCAGAGGTGGTTCGGATA  
TACATCTCACTTCTTAAGGAGAGCAAGACTCCTGCCATCTAGAAGCCTCAGCTGGAGCTATCCAGAACT  
TGTGTGCTGGGCCTGGACGTATGGTCGATACATCCGCTCTGCTCTGCGTCAAGAGAAGGCTCTTCTGC  
CATAGCTGACCTCCTGACTAATGAACATGAACGGTGGTAAAAGCTGCATCTGGAGCACTGAGAAACCTG  
GCTGTGGATGCTCGAACAAAGAATTAATTGGTAAACATGCTATTCTAAGTGGTAAAGAACTGCCCAG  
GAGGACAGCAGAACTCCTCTTGGAAATTTCTCTGAGGACACTGTCATCTCTATTTTGAACACTATCAACGA  
GGTTATCGCTGAGAACTTGGAGGCTGCCAAAAAGCTTCGAGAGACACAGGGTATTGAGAAGCTGGTGTG  
ATCAACAAATCAGGGAACCGCTCAGAAAAAGAAGTTCGAGCAGCAGCACTTGATTTACAGACAATCTGGG  
GATATAAGGAACTGCGGAAGCCACTGGAAAAAGAAGGATGGAAGAAATCAGACTTTCAGGTGAATCTAAA  
CAATGCTTCCCGAAGCCAGAGCAGTTCATCATATGATGATAGTACTCTCCCTCTCATTGACCGGAACCAA  
AAATCAGATAAAGAACTGATCGGGAAGAAATTCAGATGAGCAATATGGGATCAAACACAAAATCACTAG  
ATAACAACTATTCCACACCAAATGAGAGAGGAGACCACAATAGAACACTGGATCGATCGGGGGATCTAGG  
CGACATGGAGCCATTGAAGGGAACAACCCCTTGTGAGAAAGATT

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTAA

**Protein Sequence:** >RG223704 representing NM\_001085469  
Red=Cloning site Green=Tags(s)

MQEPGQIVETYTEEDPEGAMSVSVETSDDGTTTTRTETT VKKVVKTVTTTRTVQPVAMGPDGLPVDASSVS  
NNYIQT LGRDFRKNNGGPGPYVGQAGTATLPRNFHYPPDGYSRHYEDGYPGGSDNYGSLSRVTRIEERY  
RPSMEGYRAPS RQDVYGPQPQVRVGGSSVDLHRFHPEPYGLEDDQRSMGYDDL DYGMMSDYGTARRTGTP  
SDPRRRLRSYEDMIGEEVPSDQYYWAPLAQHERGSLASLDSL RKGPPPPNWRQPELPEVIAMLGFR LDA  
VKSNAAYLQHL CYRNDKVKTDVRKLGIPVLVGLLDHPKKEVHLGACGALKNISFGRDQDNKIAIKNCD  
GVPALVRLLRKARDMDL TEVITGTLWNLSSHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHI  
EWESVL TNTAGCLRNVSSEARRKLRECDGLVDALIFIVQAEIGQKSDSKLVENCVCLLRNLSYQVH  
REIPQAERYQE AAPNVANNTGPHAASCFGAKKGGKPKIEDPANDTVDFPKRTSPARGYELLFQPEVVRI  
YISLLKESKTPAILEASAGAIQNL CAGRWTYGRYIRSALRQEKALSAIADLLTNEHERVVKAASGALRNL  
AVDARNKELIGKHAIPNLVKNLPGGQQNSSWNFSEDTVISILNTINEVIAENLEAAKKLRETQGIEKLV  
INKSGNRSEKEVRAAALVLQTIWGYKELRKPLEKEGWKKSDFQVNLNNASRSQSSHSYDDSTLPLIDRNQ  
KSDKKPDREEIQMSNMGSNKSLDNNYSTPNERGDHNRTLDRSGDLGDMEPLKGTTPLMQKI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

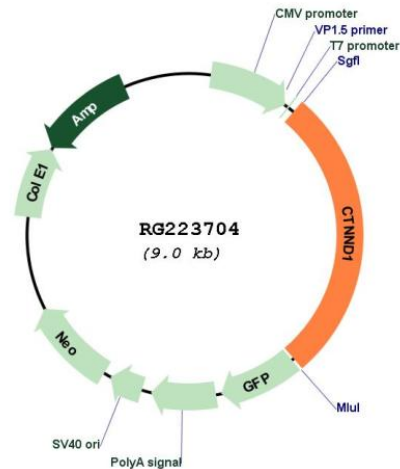


```

      Kozac
      Consensus
      Sgf I    Asc I
EcoR I    BamH I Kpn I  RBS
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

      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 ACGGCCGGCCGCGGAGCT
- - - E   E   R   V  Stop
  
```

## Plasmid Map:



ACCN: NM\_001085469

ORF Size: 2496 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\\_001085469.1](#), [NP\\_001078938.1](#)

RefSeq Size: 5705 bp

RefSeq ORF: 2499 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 natures 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]