

## Product datasheet for **RG233155**

### CTNND1 (NM\_001206888) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTNND1 (NM_001206888) 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:**

>RG233155 representing NM\_001206888  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAACGGCACACTCACCCCGCGCATCAGAACGGCCGGTTGTGGGCGATGCTGACCTTAAAGAC  
 AGAAATTTTCAGATTTGAACTCAACGGACCCAGGATCACAGTACCTTCTATATAGCACCATCCCAG  
 GATGCAGGAGCCGGGCAGATTGTGGAGACCTACACGGAGGAGGATCCTGAGGGAGCCATGTCTGTAGTC  
 TCTGTGGAGACCTCAGATGATGGGACACTCGGCGCACAGAGACCACGGTCAAGAAAGTAGTGAAGACTG  
 TGACAACACGGACAGTACAGCCAGTCGCTATGGGACCAGACGGTTGCCTGTGGATGCTTCATCAGTTTC  
 TAACTATATCCAGACTTTGGGTCGTGATTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTG  
 GGGCAAGTGGCACTGCTACCTTCTAGGAATTCCTACTACCTCCTGATGGTTATAGTCGCCACTATG  
 AAGATGGTTATCCAGGTGGCAGTGATAACTATGGCAGTCTGTCCCGGGTACCCGCATTGAGGAGCGGTA  
 TAGGCCACAGCATGGAAGGCTACCGGCACCTAGTAGACAGGATGTGTATGGGCCCAACCCAGGTTCCGG  
 GTAGGTGGGAGCAGCGTGGATCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTA  
 GTATGGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCGGACTGGGACACC  
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 CCTGTGGAGCTCTCAAGAATATCTCTTTGGACGTGACCAGGATAACAAGATTGCCATAAAAAACTGTGA  
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 CAGATGAAGTGATCATTCTCATTCTGGTTGGGAGCGGGAACCTAATGAAGACTGTAAGCCACGCCATAT  
 TGAGTGGGAATCGGTGCTCACCACACAGCTGGCTGCCTTAGGAATGTAAGCTCAGAGAGGAGTGAAGCT  
 CGCCGGAAACTTCGGGAATGTGATGGTTTGTGATGCTCCTCATTTCATTGTTCCAGGCTGAGATTGGGC  
 AGAAGGATTGAGACAGCAAGCTTGTAGAGAACTGTGTTTGCCTTCTCGGAACCTATCATATCAAGTTCA  
 CCGGGAGATCCCACAGGCAGAGCGTTACCAAGAGGCAGCTCCCAATGTTGCCAACAACTAGGGCCACAT  
 GCTGCCAGTTGCTTTGGGGCCAAGAAGGGCAAAGGAAAAACCTATAGAGGATCCAGCAACGATACAG  
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 ATACATCTCACTTCTAAGGAGAGCAAGACTCCTGCCATCCTAGAAGCCTCAGCTGGAGCTATCCAGAAC  
 TTGTGTGCTGGGCGCTGGACGTATGGTCGATACATCCGCTCTGCTCTGCGTCAAGAGAAGGCTCTTCTG  
 CCATAGCTGACCTCCTGACTAATGAACATGAACGGGTGGTGAAGCTGCATCTGGAGCACTGAGAAACCT  
 GGCTGTGGATGCTCGCAACAAAGAATTAATTGGTAAACATGCTATTCTAACTTGGTAAAGAATCTGCCA  
 GGAGGACAGCAGAACTCCTCTTGGAAATTTCTCTGAGGACACTGTCATCTCTATTTTGAACACTATCAACG  
 AGGTTATCGCTGAGAACTTGGAGGCTGCCAAAAAGCTTCGAGAGACACAGGGTATTGAGAAGCTGGTGT  
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 GATAACAATAATCCACACCAAATGAGAGAGGAGACCACAATAGAACACTGGATCGATCGGGGGATCTAG  
 GCGACATGGAGCCATTGAAGGGAACAACACCCTTGTGCAGAAGATT

**ACGGTACGGCGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG233155 representing NM\_001206888  
Red=Cloning site Green=Tags(s)

MANGTLTRRHQNGRFVGDADLERQKFSDLKLNQPQDHSLLYSTIPRMQEPGQIVETYTEEDPEGAMSVV  
 SVETSDDGTTTRTETTIVKVVKTVTTRTVQPVAMGPDGLPVDASSVSNNYIOTLGRDFRKNNGGPGPYV  
 GQAGTATLPRNFHYPPDGYSRHYEDGYPGGSDNYGSLSRVTRIEERYRPSMEGYRAPSRQDYYGQPQVR  
 VGGSSVDLHRFHPEPYGLEDDQSRMGYDDL DYGMSDYGTARRTGTPSDPRRRLRSYEDMIGEEVPSDQY  
 YWAPLAQHERGSLASLDSLKGGPPPNWRQPELPEVIAMLGFRLDVAVKSNAAYLQHLCYRNDKVKTDV  
 RKLGIPVLVGLLDHPKKEVHLGACGALKNISFGRDQDNKIAIKNCDGVPALVRLLRKARDMDL TEVITG  
 TLWNLSSHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHIEWESVLTNTAGCLRNVSSERSEA  
 RRKLRCDGLVDALIFIVQAEIGQKDSKLVENCVLLRNLSYQVHREIPQAERYQEAAPNVANNTGPH  
 AACFCGAKKGGKPIEDPANDTVDFPKRTSPARGYELLFQPEVVRIYISLLKESKTPAILEASAGAIQN  
 LCAGRWTYGRYIRSALRQEKALSAIADLLTNEHERVVKAASGALRNLAVDARNKELIGKHAIPNLVKNLP  
 GGQNSSWNFSEDTVISILNTINEVIAENLEAAKCLRQGIKLVINKSGNRSEKEVRAALVLQTIW  
 GYKELRPLEKEGWKKSDFQVNLNNASRSQSSHSYDDSTLPLIDRNQKSDKKPDREEIQMSNMGSNTKSL  
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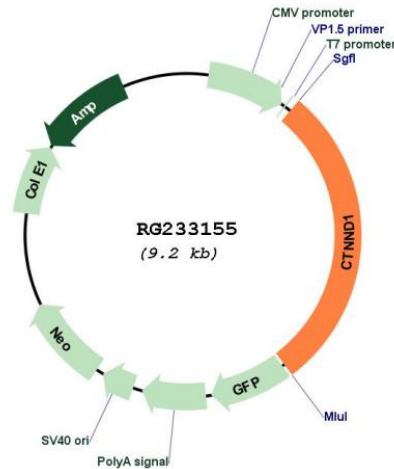
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001206888

**ORF Size:** 2637 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\\_001206888.1](#), [NP\\_001193817.1](#)

**RefSeq Size:** 5957 bp

**RefSeq ORF:** 2640 bp

**Locus ID:** 1500

**UniProt ID:** [O60716](#)

<b>Cytogenetics:</b>	11q12.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Leukocyte transendothelial migration
<b>Gene Summary:</b>	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]