

Product datasheet for **RG233171**

CTNND1 (NM_001206883) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTNND1 (NM_001206883) 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:

>RG233171 representing NM_001206883
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCAACGGCACACTCACCCCGCGCATCAGAACGGCCGGTTGTGGGCGATGCTGACCTTAAAGAC
 AGAAATTTTTCAGATTTGAAACTCAACGGACCCAGGATCACAGTACCTTCTATATAGCACCATCCCAG
 GATGCAGGAGCCGGGCAGATTGTGGAGACCTACACGGAGGAGGATCCTGAGGGAGCCATGTCTGTAGTC
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 TGACAACACGGACAGTACAGCCAGTCGCTATGGGACCAGACGGGTTGCCTGTGGATGCTTCATCAGTTTC
 TAAACATATATCCAGACTTTGGGTCGTGATTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTG
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 GTAGGTGGGAGCAGCGTGGATCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTA
 GTATGGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCGGACTGGGACACC
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 GCTGCCAGTTGCTTTGGGGCCAAGAAGGGCAAAGATGAGTGGTTCTCCAGAGGGAAAAAACCTATAGAGG
 ATCCAGCAACGATACAGTGGATTTCCCTAAAAGAACGAGTCCAGCTCGAGGCTATGAGCTCTTATTTCA
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 GCTGGAGCTATCCAGAACTTGTGTGCTGGGCGCTGGACGTATGGTCGATACATCCGCTCTGCTCTGCGTC
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 GGAATCTCTGGAGGAAGAGTTGGATGTGTTGGTTTGGATGATGAGGGGGCCAAGTGTCTTACCCTCC
 ATGCAGAAAGATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233171 representing NM_001206883
 Red=Cloning site Green=Tags(s)

MANGTLTRRHQNGRFVGDADLERQKFSDLKLNQPQDHSLLYSTIPRMQEPGQIVETYTEEDPEGAMSVV
 SVETSDDGTTTRRTETTvkKVVkTVTTRTVQPVAMGPDGLPVDASSVSNNYIOTLGRDFRKNNGGPGPYV
 GQAGTATLPRNFHYPPDGYSRHYEDGYPGSDNYGSLSRVTRIEERYRPSMEGYRAPSRQDYYGPOQVR
 VGGSSVDLHRFHPEPYGLEDDQQRSMGYDDL DYGMMSDYGTARRTGTPSDPRRRLRSYEDMIGEEVPSDQY
 YWAPLAQHERGSLASLDSLKGGPPPNWRQPELPEVIAMLGFRLLDAVKSNAAYLQHLCYRNDKVKTDV
 RKLGKIPVLVGLLDHPKKEVHLGACGALKNISFGRDQDNKIAIKNCDGVPALVRLLRKARDMDLTEVITG
 TLWNLSSHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHIEWESVLTNTAGCLRNVSSERSEA
 RRKLRECDGLVDALIFIVQAEIGQKDSKLVENCVLLRNL SYQVHREIPQAERYQEAAPNVANNTGPH
 AASCFGAKKKGDEWF SRGKKPIEDPANDTVDFPKRTSPARGYELLFQPEVVRIYISLLKESKTPAILEAS
 AGAIQNL CAGRWTYGRYIRSALRQEKALSAIADLLTNEHERVVKAASGALRNLAVDARNKELIGKHAIPN
 LKKNLPGGQQNSSWNFSEDTVISILNTINEVIAENLEAAKKLRETQIEKLV LNKSGNRSEKEVRAAAL
 VLQTIWGYKELRKPLEKEGWKKSDFQVNLNNASRSQSSHSYDDSTLPLIDRNQKSDKKPDREEIQMSNMG
 SNTKSLDNNYSTPNERGDHNRLLDRSGDLGDMEPLKGTTPLMQDEGQESLEEELDVLVL DDEGGQVSYPSS
 MQKI

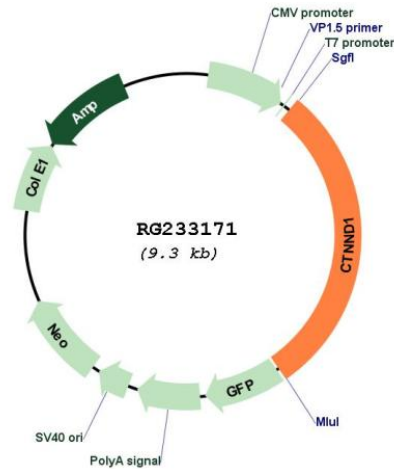
TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001206883

ORF Size: 2742 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_001206883.1](#), [NP_001193812.1](#)

RefSeq Size: 6062 bp

RefSeq ORF: 2745 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]