

Product datasheet for **RG233158**

CTNND1 (NM_001206884) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTNND1 (NM_001206884) 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:**

>RG233158 representing NM_001206884
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAACGGCACACTCACCCCGCGCATCAGAACGGCCGGTTTGTGGGCGATGCTGACCTTAAAGAC
 AGAAATTTTCAGATTTGAACTCAACGGACCCAGGATCACAGTACCTTCTATATAGCACCATCCCAG
 GATGCAGGAGCCGGGCAGATTGTGGAGACCTACACGGAGGAGGATCCTGAGGGAGCCATGTCTGTAGTC
 TCTGTGGAGACCTCAGATGATGGGACACTCGGCGCACAGAGACCACGGTCAAGAAAAGTAGTGAAGACTG
 TGACAACACGGACAGTACAGCCAGTCGCTATGGGACCAGACGGTTGCCTGTGGATGCTTCATCAGTTTC
 TAAACAATATATCCAGACTTTGGGTCGTGATTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTG
 GGGCAAGTGGCACTGCTACCTTCTAGGAACCTCCACTACCTCCTGATGGTTATAGTCGCCACTATG
 AAGATGGTTATCCAGGTGGCAGTGATAACTATGGCAGTCTGTCCCGGGTACCCGCATTGAGGAGCGGTA
 TAGGCCACAGCATGGAAGGCTACCGGCACCTAGTAGACAGGATGTGTATGGGCCCAACCCAGGTTCCGG
 GTAGGTGGGAGCAGCGTGGATCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTA
 GTATGGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCGGACTGGGACACC
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 CGGAAGCTCAAGGCATCCCAGTACTGGTGGGATTGTTAGACCATCCAAAAAGGAAGTGCACCTTGGAG
 CCTGTGGAGCTCAAGAATATCTCTTTGGACGTGACCAGGATAACAAGATTGCCATAAAAAACTGTGA
 TGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGCTCGTGATATGGACCTTACTGAAGTTATTACCGGA
 ACCCTGTGGAATCTTTCATCCCATGACTCAATCAAAATGGAGATTGTGGACCATGCACTGCATGCCTTGA
 CAGATGAAGTGATCATTCTCATTCTGGTTGGGAGCGGGAACCTAATGAAGACTGTAAGCCACGCCATAT
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 CGCCGGAAACTTCGGGAATGTGATGGTTTGTGTTGATGCCCTCATTTCATTGTTCCAGGCTGAGATTGGGC
 AGAAGGATTAGACAGCAAGCTTGTAGAGAACTGTGTTTGCCTTCTTCGGAACCTATCATATCAAGTTCA
 CCGGGAGATCCCACAGGCAGAGCGTTACCAAGAGGCAGCTCCCAATGTTGCCAACAACTAGGGCCACAT
 GCTGCCAGTTGCTTTGGGGCCAAGAAGGGCAAAGATGAGTGGTTCTCAGAGGGAAAAAACCTATAGAGG
 ATCCAGCAAACGATACAGTGGATTTCCCTAAAAGAACGAGTCCAGCTCGAGGCTATGAGCTCTTATTTCA
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 TCAAACACAAAACTACTAGATAACAATTTCCACACCAATGAGAGAGGAGACCACAATAGAACACTGG
 ATCGATCGGGGATCTAGGCGACATGGAGCCATTGAAGGGAACAACCCCTTGTGCAGAAGATT

ACCGGTACGGCGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG233158 representing NM_001206884
 Red=Cloning site Green=Tags(s)

MANGTLTRRHQNGRFVGDADLERQKFSDLKLNQPQDHSLLYSTIPRMQEPGQIVETYTEEDPEGAMSVV
 SVETSDDGTTTRTETTvkKVVkTVTTRTVQPVAMGPDGLPVDASSVSNNYIQTLGRDFRKNNGGPGPYV
 GQAGTATLPRNFHYPPDGYSRHYEDGYPGGSDNYGSLSRVTRIEERYRPSMEGYRAPSRQDVYGPQVVR
 VGGSSVDLHRFHPEPYGLEDDQQRSMGYDDL DYGMSDYGTARRTGTPSDPRRRLRSYEDMIGEEVPSDQY
 YWAPLAQHERGSLASLDSLKGGPPPNWRQPELPEVIAMLGFRLDVAVKSNAAYLQHLCYRNDKVKTDV
 RKLGIPVLVGLLDHPKKEVHLGACGALKNISFGRDQDNKIAIKNCDGVPALVRLLRKARDMDLTEVITG
 TLWNLSSHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHIEWESVLTNTAGCLRNVSSERSEA
 RRKLRCDGLVDALIFIVQAEIGQKDSKLVENCVLLRNLSYQVHREIPQAERYQEAAPNVANNTGPH
 AACFCGAKKGDWFSRGKKPIEDPANDTVDFPKRTSPARGYELLFQPEVVRIYISLLKESKTPAILEAS
 AGAIQNLCAGRWYGRYIRSALRQEKALSAIADLLTNEHERVVKAASGALRNLAVDARNKELIGKHAIPN
 LVKNLPGGQQNSSWNFSEDTVISILNINEVIAENLEAAKKLRETQIEKLVLINKSGNRSEKEVRAAAL
 VLQTIWGYKELRKPLEKEGWKKSDFQVNLNNSRSQSSHSYDDSTLPLIDRNQKSDKKPDREEIQMSNMG
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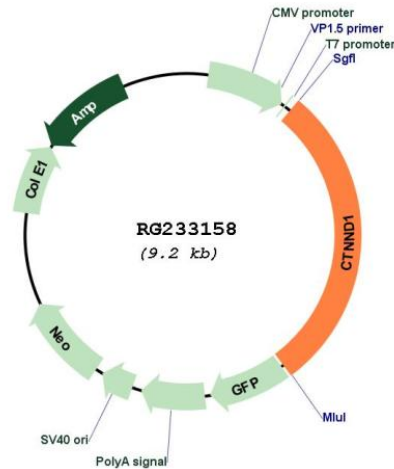
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001206884

ORF Size: 2655 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_001206884.1](#), [NP_001193813.1](#)

RefSeq Size: 5975 bp

RefSeq ORF: 2658 bp

Locus ID: 1500

UniProt ID: [O60716](#)

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