

Product datasheet for **RG223444**

CTNND1 (NM_001085464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTNND1 (NM_001085464) 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:

>RG223444 representing NM_001085464
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGGAGCCGGGCGAGATTGTGGAGACCTACACGGAGGAGGATCCTGAGGGAGCCATGTCTGTAGTCT
 CTGTGGAGACCTCAGATGATGGGACCACTCGGGCCACAGAGACCACGGTCAAGAAAGTAGTGAAGACTGT
 GACAACACGAGACGTACAGCCAGTCGCTATGGGACCAGACGGGTTGCCTGTGGATGCTTCATCAGTTTCT
 AACAACTATATCCAGACTTTGGGTCTGATTTCCGCAAGAATGGCAATGGGGGACCTGGTCCCTATGTGG
 GGCAAGCTGGCACTGCTACCTTCTTAGAACTCCACTACCTCCTGATGGTTATAGTCGCCACTATGA
 AGATGGTTATCCAGGTGGCAGTGATAACTATGGCAGTCTGTCCCAGGATGACCCGATTGAGGAGCGGTAT
 AGGCCAGCATGGAAGGCTACCGGGCACCTAGTAGACAGGATGTGTATGGGCCCCAACCCAGGTTCCGG
 TAGGTGGGAGCAGCGTGGATCTGCATCGCTTTCATCCAGAGCCTTATGGGCTAGAGGATGACCAGCGTAG
 TATGGGCTATGATGACCTGGATTATGGTATGATGTCTGATTATGGCACTGCCCGTCGGACTGGGACACCC
 TCTGACCCTCGTCGGCGCCTCAGGAGCTATGAAGACATGATTGGTGGAGGAGTGCATCCGATCAATACT
 ACTGGGCTCCTTTGGCCAGCATGAGCGAGGAAGTTTAGCAAGCTTGGATAGCCTGCGCAAGGAGGGCC
 TCCACCTCCTAATTGGAGACAGCCAGAGCTGCCAGAGGTGATCGCCATGCTTGGATTCCGCTTGGATGCT
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 GGAAGCTCAAGGGCATCCAGTACTGGTGGGATTGTTAGACCATCCAAAAAGGAAGTGCACCTTGGAGC
 CTGTGGAGCTCTCAAGAATATCTCTTTGGACGTGACCAGGATAACAAGATTGCCATAAAAACTGTGAT
 GGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGCTCGTGATATGGACCTTACTGAAGTTATTACCGGAA
 CCCTGTGGAATCTTTCATCCCATGACTCAATCAAAATGGAGATTGTGGACCATGCATGCATGCCATTGAC
 AGATGAAGTGATCATTCTCATTCTGGTTGGGAGCGGGAACCTAATGAAGACTGTAAAGCCACGCCATATT
 GAGTGGGAATCGGTGCTACCAACACAGCTGGCTGCCTTAGGAATGTAAGCTCAGAGAGGAGTGAAGCTC
 GCCGAAACTTCGGGAATGTGATGGTTTGTGATGCCCTCATTTCATTGTTTCAGGCTGAGATTGGGCA
 GAAGGATTCAGACAGCAAGCTTGTAGAGAACTGTGTTGCCTTCTCGGAACTTATCATATCAAGTTCAC
 CGGGAGATCCACAGGCAGAGCGTTACCAAGAGGCAGCTCCCAATGTTGCCAACAACTACTGGCCACATG
 CTGCCAGTTGCTTTGGGGCAAGAAGGGCAAGGGAAAAAACCTATAGAGGATCCAGCAAACGATACAGT
 GGATTTCCCTAAAAGAACGAGTCCAGCTCGAGGCTATGAGCTCTATTTCAGCCAGAGGTGGTTCGGATA
 TACATCTCACTTCTTAAGGAGAGCAAGACTCCTGCCATCCTAGAAGCCTCAGCTGGAGCTATCCAGA
 ACTTGTGTGCTGGGCCTGGACGTATGGTCGATACATCCGCTCTGCTCTGCGTCAAGAGAAGGCTCTTCTGC
 CATAGCTGACCTCCTGACTAATGAACATGAACGGTGGTAAAAGCTGCATCTGGAGCACTGAGAAACCTG
 GCTGTGGATGCTCGAACAAAGAATTAATTGGTAAACATGCTATTCTAATTGGTAAAGAATCTGCCAG
 GAGGACAGCAGAACTCCTCTTGGAAATTTCTCTGAGGACACTGTCATCTCTATTTTGAACACTATCAACGA
 GGTTATCGCTGAGAACTTGGAGGCTGCCAAAAAGCTTCGAGAGACACAGGATTTGAGAAGCTGGTGTG
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 GATATAAGGAACTGCGGAAGCCACTGGAAAAAGAAGGATGGAAGAAATCAGACTTTCAGGTGAATCTAAA
 CAATGCTTCCCGAAGCCAGAGCAGTCAATCATATGATGATAGTACTCTCCCTCTCATTGACCGGAACCAA
 AAATCAGATAAGAAACCTGATCGGGAAGAAATTCAGATGAGCAATATGGGATCAAACACAAAACTACTAG
 ATAACAACTATCCACACCAATGAGAGAGGAGACCACAATAGAACACTGGATCGATCGGGGATCTAGG
 CGACATGGAGCCATTGAAGGGAACAACCCCTTGTGATGCAGGACGAGGGGCAGGAATCTCTGGAGGAAGAG
 TTGGATGTGTTGGTTTTGGATGATGAGGGGGCCAAAGTGTCTTACCCCTCCATGCAGAAGATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223444 representing NM_001085464
Red=Cloning site Green=Tags(s)

MQEPGQIVETYTEEDPEGAMSVSVETSDDGTTTRRTETT VKKVVKTVTTTRTVQPVAMGPDGLPVDASSVS
NNYIQT LGRDFRKNNGGPGPYVGQAGTATLPRNFHYPPDGYSRHYEDGYPGGSDNYGSLSRVTRIEERY
RPSMEGYRAPS RQDVYGPQPQVRVGGSSVDLHRFHPEPYGLEDDQRSMGYDDL DYGMMSDYGTARRTGTP
SDP RRRRLRSYEDMIGEEVPSDQYYWAPLAQHERGSLASLDSL RKG GPPPNWRQPELPEVIAMLGFR L DA
VKSNAAYLQHL CYRNDKVKTDVRKLGIPVLVGLLDHPKKEVHLGACGALKNISFGRDQDNKIAIKNCD
GVPALVRLLRKARDMDL TEVITGTLWNLSSHDSIKMEIVDHALHALTDEVIIPHSGWEREPNEDCKPRHI
EWESVL TNTAGCLRNVSSERSEARRKLRECDGLVDALIFIVQAEIGQKSDSKLVENCVCLLRNLSYQVH
REIPQAERYQE AAPNVANNTGPHAASCFGAKKGGKPKIEDPANDTVDFPKRTSPARGYELLFQPEVVRI
YISLLKESKTPAILEASAGAIQNL CAGRWTYGRYIRSALRQEKALSAIADLLTNEHERVVKAASGALRNL
AVDARNKELIGKHAIPNLVKNLPGGQQNSSWNFSEDTVISILNTINEVIAENLEAAKKLRETQGIEKLV
INKSGNRSEKEVRAAALVLQTIWGYKELRKPLEKEGWKKSDFQVNLNNASRSQSSH SYDDSTLPLIDRNQ
KSDKKPDREEIQMSNMGSNTKSLDNNYSTPNERGDHNRTLDRSGDLGDMEPLKGTTPLMQDEGQESLEEE
LDVVLVDDEGGQVSYSMQKI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_001085464
ORF Size:	2583 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:	<ol style="list-style-type: none">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_001085464.1 , NP_001078933.1
RefSeq Size:	5864 bp
RefSeq ORF:	2586 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]