OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC118935

alpha 1 Catenin (CTNNA1) (NM_001903) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1 Catenin (CTNNA1) (NM_001903) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTNNA1
Synonyms:	CAP102; MDPT2
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None

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Fully Sequenced ORF:

>OriGene ORF within SC118935 sequence for NM_001903 edited (data generated by NextGen Sequencing)

ATGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATC
AGGACTCTGGCAGTTGAGAGACTGTTGGAGCCTCTTGTTACACAGGTTACAACCCTTGTA
AACACCAATAGTAAAGGGCCCTCTAATAAGAAGAGAGGTCGTTCTAAGAAGGCCCATGTT
TTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTTGGAGAAGGGGGATAAAATTGCG
AAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGCTGCTGTAGAAGATGTTCGAAAACAA
GGTGATTTGATGAAGGCTGCTGCAGGAGAGTTCGCAGATGATCCCTGCTCTTCTGTGAAG
CGAGGCAACATGGTTCGGGCAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATT
TTGGCTGACATGGCAGATGTCTACAAATTACTTGTTCAGCTGAAAGTTGTGGAAGATGGT
ATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGAATCCAGTATAAAGCCCTA
AAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAAGAT
GTTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATC
CTCTATACTGCATCCCAGGCATGCCTACAGCACCCTGATGTCGCAGCCTATAAGGCCAAC
AGGGACCTGATATACAAGCAGCTGCAGCAGGCGGTCACAGGCATTTCCAATGCAGCCCAG
GCCACTGCCTCAGACGATGCCTCACAGCACCAGGGTGGAGGAGGAGGAGAACTGGCATAT
GCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGC
TTTAGGCCTTCCCTGGAGGAGCGTCTGGAAAGCATCATTAGTGGGGCTGCCTTGATGGCC
GACTCGTCCTGCACGCGTGATGACCGTCGTGAGCGAATTGTGGCAGAGTGTAATGCTGTC
CGCCAGGCCCTGCAGGACCTGCTTTCGGAGTACATGGGCAATGCTGGACGTAAAGAAAGA
AGTGATGCACTCAATTCTGCAATAGATAAAATGACCAAGAAGACCAGGGACTTGCGTAGA
CAGCTCCGCAAAGCTGTCATGGACCACGTTTCAGATTCTTTCCTGGAAACCAATGTTCCA
CTTTTGGTATTGATTGAAGCTGCAAAGAATGGAAATGAGAAAGAAGTTAAGGAGTATGCC
CAAGTTTTCCGTGAACATGCCAACAAATTGATTGAGGTTGCCAACTTGGCCTGTTCCATC
TCAAATAATGAAGAAGGTGTAAAGCTTGTTCGAATGTCTGCAAGCCAGTTAGAAGCCCTC
TGTCCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAACCACAGAGTAAACTGGCC
CAAGAGAACATGGATCTTTTTAAAGAACAATGGGAAAAACAAGTCCGTGTTCTCACAGAT
GCTGTCGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTG
GAAGATGTGAACAAATGTGTCATTGCTCTCCAAGAGAAGGATGTGGATGGCCTGGACCGC
ACAGCTGGTGCAATTCGAGGCCGGGCAGCCCGGGTCATTCACGTAGTCACCTCAGAGATG
GACAACTATGAGCCAGGAGTCTACACAGAGAAGGTTCTGGAAGCCACTAAGCTGCTCTCC
AACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGCTCG
GACCCTGCCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGAT
GGCATCCGGGACATCAGGAAAGCAGTGCTGATGATAAGGACCCCTGAGGAGTTGGATGAC
TCTGACTTTGAGACAGAAGATTTTGATGTCAGAAGCAGGACGAGCGTCCAGACAGAAGAC
GATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCTCAGCTTCCCCAGGAGCAA
AAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCCAGGAAGAAAAGAGCAAGCTGGATGCT
GAAGTGTCCAAATGGGACGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGC
ATGATTATGATGGAGATGACAGACTTTACCCGAGGTAAAGGACCACTCAAAAATACATCG
GATGTCATCAGTGCTGCCAAGAAAATTGCTGAGGCAGGATCCAGGATGGACAAGCTTGGC
CGCACCATTGCAGACCATTGCCCCGACTCGGCTTGCAAGCAGGACCTGCTGGCCTACCTG
CAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAGGTG
CAGAATCTCGGCGGGGAGCTTGTTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAG
GCAGCCAAGAACTTGATGAATGCTGTGGTGCAGACAGTGAAGGCATCCTACGTCGCCTCT
ACCAAATACCAAAAGTCACAGGGTATGGCTTCCCTCAACCTTCCTGCTGTGTCATGGAAG
ATGAAGGCACCAGAGAAAAAGCCATTGGTGAAGAGAGAGAAACAGGATGAGACACAGACC
AAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCGAGTTC
AAAGCTATGGACAGCATCTAA

Clone variation with respect to NM_001903.2

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001903 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATT
CGGCACGAGGCCGGACTGGAGGGAGACAAAGCAGCGCCCGTCTGCTTCGGGCCTCTGGAA
TTTAGCGCTCGCCCAGCTAGCCGCAGAAATGACTGCTGTCCATGCAGGCAACATAAACTT
CAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCAGTTGAGAGACTGTTGGAGCC
TCTTGTTACACAGGTTACAACCCTTGTAAACACCAATAGTAAAGGGCCCTCTAATAAGAA
GAGAGGTCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAA
TTTCTTGGAGAAGGGGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGT
GGCTGCTGTAGAAGATGTTCGAAAACAAGGTGATTTGATGAAGGCTGCTGCAGGAGAGTT
CGCAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATGGTTCGGGCAGCTCGAGCTTT
GCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAATTACT
TGTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACA
AGACTTANGAATCCAGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGC
AGCCAAAAGACAACAGGAATTGAAAGATGTTGGCCATCGTGATCAGATGGCTGCAGCTAG
AGGAATCCTGCAGAAAGACGNTNNCGATCCTCTATACTGCATCCCCAGCATGCCTACAGC
ACCCTGGATGTCGCAGCCTATAAGGCCCACAGGGACCTGATATANCAGCAGCTGCAGCAA
GGCGGTCACG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001903 unedited
TAAAAGACAACTTTCATTAATGGTCCTGCAGCAGCGTACATTAGTAATTATAACAATGCA
TTAAAATTTTCATTTCATGTCATAGAGAATCAGTTTTCTTCATGATACATTATGTTTTAC
TGAGTGAGTTTGTCCCTCCAGAGACCTTTCTGGGAACATGCCTTCTCCAGGGACTGCTTC
CTAAGATGCCCAGGTTGCTTACCACAGGTCATCTTTGGTCATTTAAAAGCAGTCAAGCTG
TCTGGACTGCACCCTCTCAACTGAAGTTGAGCCAAATTCCCTTCTCTCAAACCCTAACGC
CGCCATCACTAAGAGAATGGGCATCTCGGCTTGGTCAGAGCATTACTAACAAGCTAATGT
GGGATTCTCTTTGGTTATGAATTTTTATTTTTATTTAAGCATACAAAAAATACAGCTAGA
AGTAGGCTCCTGCATTCTAAAAGCATTTTTAATCAACTTAAACTATGTTCTTGGAAAATT
CACCACCTGGACTGGTTCAGTCTGCCCATTTCCCTGTGGAATCTAGTATCAGTGTTGTAT
TTAGCAAATTCATTTGAGTGACGAACAGTGACTGATATTCAGGAGCCCCGAGGGGTGGGG
GCGGCCGGCCTGGGCAGACTTAGATGCTGTCCATAGCTTTGAACTCGCTGAGGGCCTGCA
CCGGGTTCACGTGCTTCTTCTGAGATGCCCGTTTAATCTTGGGCTGTGTCTCATCCTGTT
TCTCTCTCTTCACCAATGGCTTTTTCTCTGGTGCCTTCATCTTCCATGACACAGCAGGAA
AGTTGAGGGNAAGCCATACCCTGTGACTTTNGGNTATTGGGTANAAGCGACGTAGGATGC
CTTCACTGTCTGGACCACAGCATCATCAAATTCTGGGCTGCTGGATAGGGACATGGCGCT
GTTCACCCCAGAACAACAGCTTCCCGCCGGATTTGGCCCTNGCCTTGCACTTTTGNAAAT
GTAACCTGGGGCATAAAGGGAATGCCTTAAGGTAGGCAACAGCCTCTTTTCACCGATACG
GAAGGTGTCAA

Restriction Sites: NotI-NotI

ACCN: NM_001903

Insert Size: 3670 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

RefSeq: NM_001903.2, NP_001894.2

RefSeq Size: 3778 bp

RefSeq ORF: 2721 bp

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Locus ID:	1495
UniProt ID:	P35221, A0A384MDY0
Domains:	Vinculin
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Endometrial cancer, Leukocyte transendothelial migration, Pathways in cancer, Tight junction
Gene Summary:	This gene encodes a member of the catenin family of proteins that play an important role in cell adhesion process by connecting cadherins located on the plasma membrane to the actin filaments inside the cell. The encoded mechanosensing protein contains three vinculin homology domains and undergoes conformational changes in response to cytoskeletal tension, resulting in the reconfiguration of cadherin-actin filament connections. Certain mutations in this gene cause butterfly-shaped pigment dystrophy. [provided by RefSeq, May 2016]

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